ENTERED

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

MAY 02 2013

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MAY 2013
NMED Hazardous Waste Bureau

New Mexico Environment Department
Attn: Mr. John Kieling, Chief
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Dear Mr. Kieling

Holloman Air Force Base is pleased to submit the Final RCRA Facility Investigation Report AOC-U Lost River Basin for your review.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Ms. DeAnna Rothhaupt of our Asset Management Flight at (575) 572-3931.

Sincerely

20130501

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Attachment:
Draft RCRA Facility Investigation Report AOC-U Lost River Basin

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FINAL

RCRA FACILITY INVESTIGATION REPORT
AOC-U, LOST RIVER BASIN
HOLLOMAN AIR FORCE BASE
NEW MEXICO

Prepared for:

49 CES/CEAN
Holloman Air Force Base
New Mexico

Under Contract to:

U.S. Army Corps of Engineers
Albuquerque, New Mexico

Contract No. W912PP-09-D-0003
Delivery Order No. 0003

March 2013

Prepared by:

NATIONVIEW

1608 13th Avenue South, Suite 160
Birmingham, Alabama 35205
NationView Project Number: 8090006

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FINAL
RCRA FACILITY INVESTIGATION REPORT
AOC-U, LOST RIVER BASIN
HOLLOMAN AIR FORCE BASE, NEW MEXICO

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Appendices

A Historical Data from Previous Investigations
B Soil Boring Logs
C Analytical Data Packages (Provided on Enclosed CD)
D Data Validation Reports

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LIST OF ACRONYMS

@	Laboratory data qualifier denoting a result less than 5 times detection limit
AAF	Army Air Field
ACM	Accelerated Corrective Measures
amsl	Above mean sea level
AOC	Area of Concern
B	Laboratory data qualifier denoting an estimated result
bgs	Below ground surface
Bhate	Bhate Environmental Associates, Inc.
°C	Degrees Celsius
CES/CEAN	Civil Engineering Squadron/Environmental Asset Management Flight
COPC	Chemicals of potential concern
$\delta^{18}O_{nitrate}$	Delta Nitrate-Oxygen
$\delta^{15}N_{nitrate}$	Delta Nitrate-Nitrogen
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
DPT	Direct Push Technology
DQO	Data Quality Objectives
DRMO	Defense Reutilization Management Office
DRO	Diesel Range Organics
EM	Electromagnetic
ERP	Environmental Restoration Program
ESL	Ecological Screening Level
°F	Degrees Fahrenheit
ft	Feet/foot
FWENC	Foster Wheeler Environmental Corporation
GCAL	Gulf Coast Analytical Laboratories, Inc.
GPS	Global Positioning System
GRO	Gasoline Range Organics
GTI	Groundwater Technology, Inc.
HAFB	Holloman Air Force Base
HGL	HydroGeoLogic, Inc.
HHMSSL	Human Health Medium Specific Screening Level
IDW	Investigation Derived Waste
IRP	Installation Restoration Program
J	Laboratory data qualifier denoting an estimated result
K	Laboratory data qualifier denoting that the peak did not meet method identification criteria
LANL	Los Alamos National Laboratory
LCS	Laboratory Control Sample
LCSD	Laboratory Control Spike Duplicate
LOAEL	Lowest Observed Adverse Effect Level
LTM	Long Term Monitoring
MCL	Maximum Contaminant Level

MDL	Method Detection Limit
MS/MSD	Matrix Spike/ Matrix Spike Duplicate
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NFA	No Further Action
NMAC	New Mexico Administrative Code
NMDGF	New Mexico Department of Game and Fish
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NMWRRS	New Mexico Water Rights Reporting System
NOAEL	No Observable Adverse Effect Level
NPDES	National Pollution Discharge Elimination System
NPS	National Park Service
OD	Outer diameter
ORO	Oil Range Organics
PA/SI	Preliminary Assessment/ Site Inspection
PCE	Tetrachloroethene
PCB	Polychlorinated Biphenyl
pH	Potential of Hydrogen (measurement of acidity)
PID	Photoionization Detector
PRG	Preliminary Remediation Goal
PVC	Polyvinyl chloride
Q	Laboratory data qualifier denoting an elevated reporting limit
QA	Quality Assurance
QC	Quality Control
RA	Risk Assessment
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RDL	Reporting Detection Limit
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RL	Reporting Limit
RPD	Relative Percent Difference
RSL	Regional Screening Level
SM	Standard Method
SOP	Standard Operating Procedure
SSLs	Soil Screening Levels
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TA	TestAmerica
TAL	Target Analyte List

1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRV	Toxicity Reference Value
TRPH	Total recoverable petroleum hydrocarbons
UDMH	Unsymmetrical Dimethyl Hydrazine
USACE	United States Army Corps of Engineers
USBOR	United States Bureau of Reclamation
U.S.C.	United States Code
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
UTL	Upper Tolerance Limit
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
WGS	World Geodetic System
WRCC	Western Regional Climate Center
WSMR	White Sands Missile Range
WWTP	Wastewater Treatment Plant

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1 INTRODUCTION

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report was prepared for the Holloman Air Force Base (HAFB) 49th Civil Engineering Squadron/Environmental Asset Management Flight (CES/CEAN) by NationView, LLC under U.S. Army Corps of Engineers (USACE), Albuquerque District Contract W912PP-09-D-0003, Delivery Order No. 0003. This report presents the results of the RFI conducted by NationView between February 28 and July 14, 2011, within Area of Concern (AOC)-U (Lost River Basin) at HAFB, New Mexico. AOC-U is listed in Table A of the HAFB Hazardous Waste Facility Permit (No. NM6572124422), Appendix 4-A (New Mexico Environment Department [NMED], 2012b), which requires the site to be investigated and undergo corrective action if warranted.

This sampling event was conducted in accordance with the *Final RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman Air Force Base, New Mexico* (NationView, 2009) and the RFI requirements set forth in the HAFB Hazardous Waste Facility Permit No. NM6572124422, Appendix 4-B (NMED, 2004a). The NMED directed HAFB to proceed (NMED, 2010) with the groundwater and surface water sampling events outlined within the *Final RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman Air Force Base, New Mexico* (NationView, 2009). Following NMED review of results presented within the *Technical Memorandum for RFI Groundwater and Surface Water Sampling Lost River Basin (AOC-U), Holloman Air Force Base, New* Mexico (NationView, 2011b) the NMED agreed with the recommendations contained within and directed HAFB to proceed with subsurface soil sampling at locations where nitrate and perchlorate exceedences were observed in groundwater (NMED, 2011b).

AOC-U is a surface water drainage area that intercepts runoff from a large portion of the base including several adjacent upgradient Solid Waste Management Units (SWMUs) and AOCs. These SWMUs and AOCs include the following Environmental Restoration Program (ERP) sites:

- OT-04 (SWMU-102) - Acid Trailer Burial Site
- OT-37 (AOC-L) - Early Missile Test Site
- OT-38 (SWMU-137) - Test Sled Maintenance Area
- SS-39 (SWMUs -165, -177, -179, and -181) - Missile Fuel Spill Area
- LF-40 (SWMU 103) - Causeway Rubble Disposal Area
- DP-62 (AOC-RD) - Ritas Draw Disposal Pit

1.1 Project Objectives

The objective of this RFI was to determine if these adjacent ERP sites had impacted the soil and water quality within the Lost River Basin watershed. The Lost River Basin is considered an environmentally sensitive area under agreement between HAFB, White Sands Missile Range (WSMR), the National Park Service (NPS), the U.S. Fish and

Wildlife Service (USFWS), and the New Mexico Department of Game and Fish (NMDGF) to protect the threatened White Sands pupfish.

The primary project objectives of the AOC-U RFI were to:

1. Identify potential releases to the soil (surface and subsurface) and groundwater within the Lost River Basin from the six known upgradient ERP sites which may have impacted the Basin via runoff from surface water tributaries and/or groundwater infiltration.

2. Delineate the horizontal extent of Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Total Petroleum Hydrocarbons (TPH), Target Analyte List (TAL) metals, and perchlorate detected above action levels in the soil and groundwater samples collected throughout the Lost River Basin during this RFI.

3. Collect sufficient analytical data to complete a human health and ecological site-specific risk assessment, if necessary, of the groundwater and soil exposure pathways.

4. Collect the proper data to meet the data quality objectives (DQOs) to support closure of the site based on guidance from the NMED.

The ultimate objective is to achieve a No Further Action (NFA) Status under NFA Criterion #5 (Appendix 4-B HAFB Hazardous Waste Facility Permit No. NM6572124422, NMED, 2004a) and obtain a Class III permit modification to remove AOC-U from Table A of the HAFB Hazardous Waste Facility Permit. NFA Criterion 5 states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

1.2 Document Organization

This RCRA Facility Investigation Report is organized according to the format suggested in Appendix 4-B of the RFI Report Requirements found in the HAFB RCRA Permit NM6572124422 (Appendix 4-B of the Permit) (NMED, 2004a). The document contains the following 10 sections:

- Section 1 – Introduction
- Section 2 – Site Background
- Section 3 – Environmental Setting
- Section 4 – Source Characterization
- Section 5 – Field Activities

- Section 6 – Laboratory Analysis and Data Validation Summary
- Section 7– Nature and Extent of Contamination
- Section 8 – Perchlorate and Ecological Risk
- Section 9 – Conclusions and Recommendations
- Section 10 – References

The tables and figures referenced throughout this RFI Report are included following the text (after Section 10). This report also includes the following attachments and appendices:

- Attachment A – Field Variance Forms
- Appendix A – Historical Data from Previous Investigations
- Appendix B – Soil Boring Logs
- Appendix C – Analytical Data Packages (Provided on Enclosed CD)
- Appendix D – Data Validation Reports

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2 SITE BACKGROUND

2.1 HAFB Facility Description and Operational History

HAFB is located in south central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-northeast of El Paso, Texas (Figure 2-1). HAFB has a population of 6,000, and supports approximately 21,000 active-duty Air Force, National Guard, Air Force Reserve, retirees, civilians, and their family members. HAFB occupies approximately 59,600 acres in the northeast quarter of Section 1, Township 17 South, Range 8 East. The White Sands Missile Range testing facilities occupy additional land extending northward from the Base. Private and public owned lands border the remainder of HAFB. The major highway servicing HAFB is Highway 70, which runs southwest from the town of Alamogordo and separates HAFB from publicly owned lands to the south. Alamogordo is located approximately 7 miles east of the base and has a population of approximately 35,000.

HAFB was first established in 1942 as Alamogordo Army Air Field (AAF). From 1942 through 1945, Alamogordo AAF served as the training ground for over 20 different flight groups, flying primarily B-17s, B-24s, and B-29s. After World War II, most operations had ceased at the Base. In 1947, Air Material Command announced the air field would be its primary site for the testing and development of un-manned aircraft, guided missiles, and other research programs. On January 13, 1948, the Alamogordo installation was renamed Holloman Air Force Base, in honor of the late Col. George V. Holloman; a pioneer in guided missile research. In 1968, the 49th Tactical Fighter Wing arrived at HAFB and has remained since, conducting fighter aircraft training and operations. HAFB has also served as the German Air Force's Tactical Training Center since 1996.

2.2 AOC-U Site Description and Background

The Lost River Basin (AOC-U) is a large intermittent drainage basin that receives surficial runoff from various upgradient SWMUs and AOCs (ERP Sites). The Lost River Basin is located within the northern portion of HAFB (Figure 2-2). Surface water generally flows from the east to the west during the rainy season (late July through September) and occurs in isolated pockets during the remaining months. The Lost River Basin receives surface runoff from six ERP sites that include nine SWMUs and AOCs that are listed on the HAFB RCRA Permit. The six potential source areas (ERP sites) are shown on Figure 2-3 and include the following sites:

- **OT-04 (SWMU-102) Acid Trailer Burial Site –** Site OT-04 is located adjacent to an arroyo known as Ritas Draw, which is a tributary of the Lost River. During the late 1950s, various types of materials including rocket propellants and other fuel components were buried on this one-half acre tract.

- **DP-62 (AOC-RD) Ritas Draw Disposal Pit –** Site DP-62 is located 300 feet (ft) east of Site OT-04. Ritas Draw contains numerous smaller arroyos and terminates into the Lost River. Two partially buried drums were discovered during a field reconnaissance of the area in 1998.

- **OT-37 (AOC-L) Early Missile Test Site –** The Early Missile Test Site was used to develop rocket and missile systems from 1947 to 1955 and is located along the southern side of the Lost River Basin. The site includes three vertical launch pads and an inclined test track. Fuels used at these sites included JP-4, kerosene, and solid rocket propellants. There are several arroyos adjacent to these launch facilities that drain directly into the Lost River Basin.

- **OT-38 (SWMU-137) Building 1166 Test Track Drain Field (Test Sled Maintenance Area) –** The Test Sled Maintenance Area is located near the Building 1166 Test Track Drain Field. Waste oils, solvents, and paint strippers used in the sled industrial maintenance area (Building 1166) could have migrated via the surface water or groundwater pathways into adjacent Lost River Basin arroyos.

- **SS-39 (SWMUs -165, -177, -179, and -181) Missile Fuel Spill Area –** The Missile Fuel Spill Area is located south of the test sled launch area near Building 1176, along the northern side of the Lost River Basin. The launch pad was constructed in 1960 with concrete drains that delivered spilled oxidizers and fuels that were diluted with water and flushed into the Lost River. This practice ceased in 1975 when catch basins were installed to collect the spilled liquid fuels.

- **LF-40 (SWMU-103) Causeway Rubble Disposal Area –** The Causeway Rubble Disposal Area was located south of the Sled Test Track Area along the perimeter of the Lost River Basin. This site was used for stockpiling concrete rubble for use as a base construction material for a road that crosses the Lost River Basin southwest of the test track launch pad.

Based on their proximity to the Lost River Basin (AOC-U) and its tributaries (e.g. Ritas Draw), one or more of these ERP sites may have contributed contaminants via surface water runoff and/or groundwater infiltration into the Basin.

2.3 Previously Identified Contamination

Previous investigations have identified a number of contaminants of concern that have impacted the soil and groundwater at the ERP sites upgradient of the Lost River Basin including:

- VOCs (e.g., trichloroethene [TCE])
- Metals (e.g., arsenic and lead)
- TPH
- Perchlorate

During the 2006 Supplemental RFI conducted at SS-39 by HydroGeoLogic, Inc. (HGL), TCE, perchlorate, arsenic, and lead were detected above current action levels (described in Section 2.4 of this report) in groundwater samples collected from wells located along the boundary of the Lost River Basin.

2.4 Applicable Screening Criteria

Analytical data obtained from previous investigations and the data collected during this RFI were evaluated against the applicable regulatory screening criteria that are specified in Appendix 4-F *Action Levels and Cleanup Levels* of the HAFB Hazardous Waste Permit No. NM6572124422 (NMED, 2004b). Soil and groundwater data evaluation consisted of a direct comparison to the applicable action level screening criteria. The applicable screening criteria are presented on the analytical data summary tables for the analytes and media of concern. The following sections present the regulatory criteria that were used to evaluate analytical data generated from this investigation.

2.4.1 Soils

VOCs, SVOCs, TAL Metals, Perchlorate, and Nitrate

The risk based action levels for unrestricted land use provided in Appendix A, Table A-1 (NMED Soil Screening Levels [SSLs]), *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a) were used as the primary action levels for VOCs, SVOCs, TAL metals, perchlorate, and nitrate. As per the HAFB Permit, Appendix 4-F V.1 (NMED, 2004b) if a NMED soil cleanup level has not been established for a particular chemical of potential concern (COPC) (e.g. 2-methylnapthalene) that constituent was compared to the U.S. Environmental Protection Agency (USEPA) Region 6 *Human Health Medium Specific Screening Level* (HHMSSL). However, under an Interagency Agreement as an update of the USEPA Region 3 Risk Based Concentration (RBC) Table, Region 6 HHMSSL Table, and the Region 9 Preliminary Remediation Goal (PRG) Table the Region 6 HHMSSLs have been combined into the Regional Screening Level (RSL) Table (USEPA, 2012). Additionally, all detected TAL metals were compared their respective NMED approved background levels (NMED, 2011a).

Total Petroleum Hydrocarbons

The action levels for TPH are established in Table 6-3 (TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater) of NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, 2012a). Based on the historical use of JP-4 jet fuel at the upgradient ERP sites, the TPH screening guideline (residential direct exposure), for kerosene and jet fuel (1,000 milligrams per kilogram [mg/kg]) (Table 6-3, NMED, 2012a) was used as the action level for total TPH concentrations (combined

gasoline range organics [GRO], diesel range organics [DRO], and oil range organics [ORO]).

2.4.2 Groundwater

VOCs, SVOCs, TAL Metals, and Nitrate

There are two applicable standards for groundwater: New Mexico Water Quality Control Commission (NMWQCC) groundwater standards for contaminants (New Mexico Administrative Code [NMAC] 20.6.2.3103) and the USEPA's *National Priority Drinking Water Regulations* (USEPA, 2009) Maximum Contaminant Levels (MCLs). If both the NMWQCC groundwater standard and a USEPA MCL have been established for an individual constituent, the lower of the two values was used as action level for VOCs, SVOCs, TAL metals, and nitrate in groundwater. Additionally, all detected TAL metals were compared to their respective NMED approved Background Levels (NMED, 2011a).

Total Petroleum Hydrocarbons

The action levels for TPH are established in Table 6-3 (TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater) of NMED's *Risk Assessment Guidance for Investigations and Remediation* (NMED, 2012a). The NMED TPH screening guideline for kerosene and jet fuel (18.5 milligrams per liter [mg/L]) is the action level compared to total TPH concentrations (GRO, DRO, and ORO) detected in groundwater.

Perchlorate

As per the HAFB Hazardous Waste Facility Permit, Section III.1.2, NMED has adopted the USEPA drinking water reference dose as an interim groundwater clean-up level for perchlorate. In December 2008, the USEPA issued an Interim Drinking Water Health Advisory for exposure to perchlorate of 15 micrograms per liter (µg/L) in water (USEPA, 2008), which served as the action level for perchlorate detections in groundwater.

Total Dissolved Solids

There are two applicable standards for total dissolved solids (TDS), the NMWQCC groundwater standards for contaminants (NMAC 20.6.2.3103) and the *USEPAs National Priority Drinking Water Regulations* (USEPA, 2009) secondary MCLs. The lower of the two standards (500 mg/L) was used as the action level for TDS.

2.4.3 Surface Water

According to the HAFB Hazardous Waste Facility Permit number NM6572124422, Appendix 4-F, Section IV.1 (Surface Water Cleanup Levels), HAFB shall comply with surface water quality standards outlined in the Clean Water Act (33 United States Code [U.S.C.] § 1251 et seq. 1972), the New Mexico Water Quality Control Commission

Regulations (20.6.2 NMAC), and the State of New Mexico Standards for Interstate and Intrastate Surface Waters (20.6.4 NMAC). The lower of these standards was used as the action level for any detected constituents in surface water.

2.5 Summary of Past Investigations and Remedial Actions

The following sections present a summary of the findings from previous investigations conducted at the Lost River Basin (AOC-U) and the six potential upgradient ERP site source areas (OT-04 [SWMU-102], OT-37 [AOC-L], OT-38 [SWMU-137], SS-39 [SWMUs -165, -177, -179, and -181], LF-40 [SWMU-103], and DP-62 [AOC-RD]). Since 1983, the associated upgradient SWMUs, AOCs, and the Lost River Basin have been the subject of numerous environmental investigations. This section provides an overview and chronology of the previous investigations and removal actions that were conducted at each of these sites from 1983 through 2010. Historical environmental data collected from the Lost River Basin (AOC-U) and the referenced upgradient ERP sites were obtained from the Holloman Administrative Record and include the following reports:

- *Installation Restoration Program Phase I Records Search,* 1983, CH2M Hill
- *RCRA Facility Assessment Preliminary Review/Visual Site Inspection Report*, 1988, A.T. Kearney, Inc. and DPRA, Inc.
- *Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites,* 1992, Radian Corporation
- *Decision Document, Site LF-40 Causeway Rubble Disposal Site,* 1993, EA Engineering, Science, and Technology, Inc.
- *Final Site OT-04 Unexploded Ordnance (UXO) Removal Action Report,* 1994, Human Factor Applications, Inc.
- *Draft Final Phase I RCRA Facility Investigation Report, Table 2 Solid Waste Management Units,* 1994, Radian Corporation
- *Draft Final Phase II RCRA Facility Investigation Report, Table 1 Solid Waste Management Units,* 1995, Foster Wheeler Environmental Corporation
- *Decision Documents Installation Restoration Program Multiple Sites,* 1995, Radian Corporation
- *Results of Additional Groundwater Sampling at Site SS-39,* 1998, Groundwater Technology Government Services, Inc.
- *Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw,* 1998, Groundwater Technology Government Services, Inc.
- *RCRA Facility Investigation Report ERP Site No. DP-62, Ritas Draw,* 2004, Bhate Environmental Associates, Inc.

- *Final 2005 Long-Term Groundwater Monitoring Report,* 2006, Bhate Environmental Associates, Inc.
- *Final Accelerated Corrective Measures Work Plan Multiple Sites,* 2007, Bhate Environmental Associates, Inc.
- *Supplemental RCRA Facility Investigation DP-30/SD-33 (SWMU 113B), SS-39 (SWMUs 165, 177, 179, and 181) and SD-27 (SWMU 141),* 2007, HydroGeoLogic, Inc.
- *Final Release Assessment Report Site OT-37,* 2011, NationView, LLC.

Selected analytical data summary tables and figures depicting sampling locations for these previous investigations are included in Appendix A of this report. The following sections describe the key findings from the previous investigations conducted at each site that may represent potential releases into the Lost River Basin (AOC-U).

2.5.1 AOC-U - Lost River Basin

2.5.1.1 RCRA Facility Assessment

The Lost River Basin is listed on Table A of the HAFB RCRA Permit as AOC-U and was not previously identified as an ERP site. AOC-U is a large intermittent drainage basin that receives annual runoff from several ERP sites located along its perimeter (Figure 2-3). The RCRA Facility Assessment (RFA) Report (A.T. Kearney, 1988) initially identified the Lost River Basin as an AOC that warranted further investigation. Releases of hazardous wastes or constituents to the soil from the adjacent test sled launch area (SS-39) were observed during the visual site inspection.

2.5.1.2 RCRA Facility Investigation

The only previous investigation conducted at AOC-U was an RFI conducted in 1993 (Radian, 1994). Hand auger samples were collected at locations where contaminated surface water runoff may have entered the basin from upgradient potential source areas (SS-39 and LF-40). Samples from 0 to 2 ft below ground surface (bgs) and 2 to 4 ft bgs were collected at the mouth of five small drainages, and 0 to 2 ft bgs samples were collected 100 ft into the basin from each of these drainages. The results of the previous RFI conducted at 29 different waste sites (Radian, 1992), which included upgradient sites SS-39 and LF-40, were used to establish the analytical sampling requirements for each of the five drainages. Based on the contaminants identified at the upgradient source areas, the soil samples were analyzed for one or more of the following: VOCs; SVOCs; total recoverable petroleum hydrocarbons (TRPH); and metals.

Four VOCs were detected at concentrations that were all below the current NMED SSLs (NMED, 2012a). SVOCs and TRPH were not detected in any of the samples collected during the RFI. Eight metals were detected above the detection limit. However, with the exception of arsenic, the maximum detection for each metal was below its current

NMED residential SSL. Arsenic was detected in soil samples AOC-U-A06-01-01 (6.99 mg/kg), AOC-U-A07-01-01 (6.39 mg/kg), AOC-U-A08-01-01 (7.36 mg/kg), and AOC-U-A09-01-01 (7.24 mg/kg) at concentrations above the SSL (3.9 mg/kg). A figure showing the hand auger sampling locations and a summary table of the RFI soil results are included in Appendix A-1-1.

A risk assessment was conducted during the AOC-U RFI to determine the need for further investigation. The presence of acetone in samples collected downgradient of SS-39 indicated a limited release into the basin; however the concentrations of all detected constituents were below the risk-based trigger criteria. The risk assessment concluded it was unlikely that AOC-U posed a significant risk to human health or the environment.

Groundwater samples have been collected within the Lost River Basin (AOC-U) during previous investigations conducted at Site SS-39 (Missile Fuel Spill Area). Several of these groundwater samples contained detections of TCE and perchlorate that exceeded current NMED and/or USEPA action levels. These exceedences are presented graphically on Figures 2-4 through 2-6.

The following subsections summarize the previous investigations that were conducted at each of the six ERP Sites that are located upgradient from the Lost River Basin.

2.5.2 OT-04 Acid Trailer Burial Site

The Acid Trailer Burial Site is a SWMU, and is listed on Table B (sites not requiring Corrective Action) of the HAFB RCRA Permit as SWMU 102. OT-04 is located adjacent to Ritas Draw, which is an arroyo that drains into the Lost River (Figure 2-3). In 1958, it was reported that two empty fuming nitric acid transport trailers and waste materials were dumped and buried on a one-half acre tract of land along three small side channels of Ritas Draw arroyo. The majority of the waste at OT-04 may have originated from the former Unconventional Fuels Storage Area located one-half mile to the south. The Unconventional Fuels Storage Area housed propellants, oxidizers, and other fuel components that were used for rocket and sled tests conducted at HAFB (Radian, 1992).

OT-04 was initially identified as an Installation Restoration Program (IRP) site in the IRP Records Search conducted in 1983 (CH2M Hill, 1983). The RFA Report (A.T. Kearney, 1988) identified OT-04 as SWMU 102 and concluded that the potential for a release was low to all media since the nitric acid trailers had been rinsed prior to burial.

2.5.2.1 Remedial Investigation

The site was initially investigated during the 29 Waste Sites RI conducted by Radian in 1991. During the RI an electromagnetic (EM) survey was performed to determine the locations of buried waste. Based on the results of the EM survey, 19 test pits were dug. Solid rocket boosters, laboratory equipment, over 100 amber bottles containing

chemicals, metal debris, and an empty stainless steel tank trailer were encountered in the exploratory pits. Several of the amber bottles contained picric acid (an explosive) and were subsequently exploded in place by the Base Explosive Ordnance Detachment (Radian, 1992). The results of the EM survey and findings from the exploratory pits are summarized on various figures and a table included in Appendix A-2-1.

Four monitoring wells (MW-04-01 through MW04-04) were installed around the perimeter of the site to determine if a release to the groundwater had occurred. Groundwater samples were analyzed for VOCs, TRPH, metals, TDS, and water quality parameters. A figure showing the locations of the four monitoring wells and the data summary tables summarizing the detected organic and inorganic constituents are included in Appendix A-2-1.

No VOCs or TRPH constituents were detected above the NMWQCC standard or USEPA MCL. Selenium and antimony were the only metals that were detected above the NMWQCC groundwater standard or USEPA MCL. Selenium was detected in monitoring well MW-04-04 (downgradient well located within the Lost River drainage area) with a concentration of 0.071 mg/L. This detection slightly exceeds the current MCL and the NMWQCC standard of 0.05 mg/L. Antimony was detected in monitoring well MW-04-02 with a concentration of 0.15 mg/L which exceeds the USEPA MCL of 0.006 mg/L. Nitrate-nitrite detections ranged from 4.5 mg/L to 46 mg/L and exceeded the current USEPA MCL and NMWQCC nitrate standard of 10 mg/L at monitoring wells MW-04-01 and MW-04-02. Chloride concentrations ranged from 6,800 mg/L (MW-04-01) to 30,000 mg/L (MW-04-04) and exceeded the NMWQCC standard of 250 mg/L in all four monitoring wells. Furthermore, TDS concentrations ranged from 17,000 to 66,000 mg/L with the maximum concentration detected in the groundwater sample from MW-04-04. All of the TDS concentrations exceed the current NMWQCC standard of 1,000 mg/L and are above 10,000 mg/L for a Class IIIB water resource (groundwater designated as unfit for human consumption [USEPA, 1986]).

A risk assessment (RA) was conducted for OT-04 as part of the RI. The RA concluded that an unacceptable risk to the White Sands pupfish may exist due to the selenium concentrations detected in the downgradient well (MW-04-04). Because of the uncertainty surrounding the selenium detected in this groundwater sample, further investigation was recommended to assess background water quality.

2.5.2.2 RCRA Facility Investigation

The following additional investigations were conducted at OT-04 (SWMU-102) to address the concerns raised by the RI (Foster Wheeler Environmental Corporation [FWENC, 1995]).

- A voluntary corrective action in 1994
- A Base-wide background study in 1993
- The Phase II RFI in 1994

To eliminate the threat to public safety identified during the RI, a 5 ft high chain link fence surrounding the debris area was erected in 1994. Additionally as part of the voluntary corrective action, all OT-04 surficial debris was located, identified, and safely removed (Human Factors Applications, Inc., 1994). A study was conducted in 1993 to determine the background concentrations of selected inorganic compounds present in the soil and groundwater at HAFB. An additional monitoring well (MW-BG-04) was installed near OT-04 as part of the study. The 1993 background upper tolerance limit (UTL) for total selenium in groundwater was calculated to be 0.079 mg/L.

During the Phase II RFI, groundwater samples were collected from three existing wells (MW-04-01, MW-04-02, and MW-04-04) and one background well (MW-BG-04). A map showing the monitoring well locations is included in Appendix A-2-2. Each of the groundwater samples collected during the RFI was analyzed for total selenium. A summary table of the selenium results is included in Appendix A-2-2. The maximum concentration of selenium (0.054 mg/L) was detected in the downgradient well MW-04-04. Although this detection was slightly above the NMWQCC standard and USEPA MCL of 0.05 mg/L it was below the 1993 HAFB background UTL (0.079 mg/L).

2.5.2.3 Site OT-04 NFA Decision Document

The IRP Site OT-04 Decision Document for NFA was prepared and approved by NMED in 1995 (Radian, 1995). A copy of the approved OT-04 Decision Document is included in Appendix A-2-3.

2.5.3 DP-62 Ritas Draw Disposal Pit

Ritas Draw Disposal Pit is an AOC, and is now listed on Table B of the HAFB RCRA Permit as AOC-RD. Site DP-62 is located approximately 300 ft east of the Acid Trailer Burial Site (OT-04) and is located within three arroyos that drain into Ritas Draw (Figure 2-3). During a field reconnaissance of the Ritas Draw area, two drums were discovered. These drums were believed to be related to the early missile testing that occurred at HAFB during the 1950s. The drums were empty with no evident soil staining, and the original content of the drums was unknown. As a result of this finding, a Preliminary Assessment/Site Inspection (PA/SI) was conducted by Groundwater Technology Government Services, Inc. (GTI) in May 1998.

2.5.3.1 Preliminary Assessment/Site Inspection

The purpose of the PA/SI was to determine if a release had occurred at the DP-62 site. A geophysical survey was conducted to locate other possible drums related to missile testing that occurred at HAFB during the 1950s. Based upon the results of the geophysical survey, four boreholes were advanced at the site in May of 1998 (GTI, 1998b).

A magnetometer geophysical survey was used on the ground surface to search for other metallic drums and debris. The geophysical survey identified five anomalies that

exhibited a high magnetic response; indicating metallic objects (see Appendix A-3-1). Based on these results, four soil borings were advanced at the locations suspected to contain metallic debris.

The four borings (RITA-1 through RITA-4) were completed to depths from 6.5 to 20 ft bgs and two soil samples were collected from each boring. Each soil sample was analyzed by an offsite laboratory for VOCs, SVOCs, explosives, and TAL metals. A summary table of the detected analytes is also included in Appendix A-3-1. With the exception of eleven acetone detections (ranging from 10J [J is a laboratory data qualifier denoting an estimated result] to 25 micrograms per kilogram [µg/kg]) and one 2-butanone detection of 8.4J µg/kg, all VOCs, SVOCs, and explosives were not detected in the soil samples. The acetone and 2-butanone detections were below their current SSLs. Furthermore, arsenic (maximum detection of 17.4 mg/kg) and thallium (maximum detection of 1.9B mg/kg [B is a laboratory data qualifier denoting an estimated result]) were the only TAL metals detected above their current NMED residential SSLs (3.9 mg/kg and 0.782 mg/kg, respectively) (NMED, 2012a).

Two of the soil borings (RITA-3 and RITA-4) encountered groundwater and were converted into temporary sampling points. The groundwater samples collected from these sampling points were also analyzed for VOCs, SVOCs, explosives, and TAL metals. VOCs, SVOCs, and explosives were not detected above any groundwater action levels in the two groundwater samples. Antimony and manganese were the only TAL Metals detected above the NMWQCC standards or applicable USEPA MCLs with maximum detections of 0.036 and 0.36 mg/L, respectively. A summary of the groundwater results from the PA/SI and figures showing the results of the magnetometer survey and soil sample locations are included in Appendix A-3-1. The PA/SI Report (GTI, 1998b) concluded that there were no indications of a release at the site.

2.5.3.2 DP-62 RCRA Facility Investigation

Bhate Environmental Associates, Inc. (Bhate) conducted a RFI at DP-62 in 2004 to address NMED concerns that not enough data had been collected from areas immediately adjacent to metallic debris identified from the PA/SI geophysical survey. Therefore, it was decided to collect shallow soil samples from boreholes advanced adjacent to the areas of exposed drums (Bhate, 2004). In March 2004, Bhate collected five soil samples from four hand augered soil boring locations (see Appendix A-3-2). The soil samples were analyzed for VOCs, SVOCs, TPH, and RCRA metals.

Data tables summarizing the DP-62 RFI analytical soil data are included in Appendix A-3-2. All VOCs, SVOCs, and TPH fractions (GRO, DRO, and ORO) were not detected above the laboratory method detection limits (MDLs). Five of the eight RCRA metals were detected above the MDL. However the maximum detection for each metal was below its respective current NMED residential SSL (NMED, 2012a). As a result of this sampling event, the drums exposed on the surface were removed and recycled as scrap metal. Based on the findings from the PA/SI and the RFI, the RFI Report

concluded that the site did not pose any unacceptable risks and recommended NFA for DP-62 (Bhate, 2004).

2.5.3.3 NFA Statement of Basis

Based on the findings from the previous investigations Ritas Draw Disposal Pit (AOC-RD) was selected for NFA along with six other SWMUs and AOCs by HAFB in 2005. A copy of the NMED letter for the final permit decision approving NFA for ERP Site DP-62, Ritas Draw Disposal Pit (AOC-RD) is included in Appendix A-3-3.

2.5.4 OT-37 Early Missile Test Site

The Old Missile Test Site is a SWMU and is listed on Table A (sites requiring corrective action) of the HAFB RCRA Permit as the Early Missile Test Site, AOC-L. The Early Missile Test Site is located east of the Test Sled Maintenance Area along the southern side of the Lost River Basin (Figure 2-3). The Early Missile Test Site was used to develop rocket and missile systems from 1947 to 1955. The test site covers an area of approximately 160 acres and includes three block houses, the inclined test track, three vertical launch pads, and four transformer concrete pads (transformers have been removed). Fuels used at these sites included JP-4, kerosene, solid rocket propellants, and polychlorinated biphenyls (PCBs) were contained in the transformer dielectric fluid. In 1983, OT-37 was initially identified as an IRP site in the IRP Records Search (CH2M Hill, 1983). The Early Missile Test Site was later identified as AOC-L in the RFA Report (A.T. Kearney, 1988) which stated that contaminant releases to the soil were probable.

2.5.4.1 Remedial Investigation

OT-37 was initially investigated during the 29 Waste Sites RI conducted by Radian Corporation in 1991. The RI focused on potential releases to the environment from the four former step-down transformers and the launch facilities. During the RI, seven soil borings (SB-37-01 through SB-37-07) and six monitoring wells (MW-37-01 through MW-37-06) were installed at the inclined track and the vertical launch pads. Two soil samples were collected from each soil boring and analyzed for VOCs, metals, and petroleum hydrocarbons. The groundwater samples collected from the six monitoring wells were analyzed for VOCs, metals, common anions, and TDS. Additionally, one surface soil sample collected from each transformer station was sent offsite for PCB and petroleum hydrocarbon analysis. The results and conclusions of the RI (Radian, 1992) are discussed below.

<u>Transformer Stations</u>

TRPH was detected in the surface soil samples collected from each of the four step-down transformer locations at concentrations ranging from 21.6 mg/kg to 30,600 mg/kg. The TRPH detected in the sample from HA-37-04 (30,600 mg/kg) exceeds the current TPH Screening Guidelines for a dielectric fluid (1,800 mg/kg) (NMED, 2012a); all other detections were below this guideline. PCBs were detected at three of the former

transformer locations. A PCB (Aroclor 1260) was detected in HA-37-14 (3.2 mg/kg) and exceeded the current NMED residential SSL (2.22 mg/kg) (NMED, 2012a); all other PCB detections were below their respective SSLs.

Vertical Launch Pad Facilities and the Inclined Test Track

Several VOCs were detected in the deeper soil samples across the site but at levels below their respective residential SSLs (NMED, 2012a). TRPH was detected in 5 of the 14 subsurface soil samples. With the exception of one sample collected at SB-37-03, all TRPH results were less than 48 mg/kg. TRPH was detected in the 0 to 2 ft bgs interval at SB-37-03 with a concentration of 3,860 mg/kg. This concentration of TRPH is above the TPH Screening Guidelines, residential direct exposure for an unknown oil of 1,000 mg/kg (NMED, 2012a); however, TRPH was not detected in the sample from 7.5 to 9.5 ft bgs collected within the same borehole. The metals detected in the soil samples collected from the seven soil borings at OT-37 were all below their respective residential SSLs.

With the exception of four antimony detections, ranging from 0.11 to 0.12 mg/L, all VOCs and metals detected in the groundwater samples collected from the six monitoring wells installed at OT-37 during the RI were all below the current NMWQCC Groundwater Standards (NMAC 20.6.2.3103) and USEPA MCLs (USEPA, 2009). TDS concentrations ranged from 10,000 to 17,000 mg/L and exceeded the NMWQCC standard (1,000 mg/L) for each well. However, each of these TDS concentrations is also above 10,000 mg/L (Class IIIB water resource) indicating that the groundwater is unfit for human consumption (USEPA, 1986). Furthermore, most of the concentrations of chloride, sulfate, fluoride, and nitrate (anions) also exceeded their respective NMWQCC standards in all of the OT-37 monitoring wells. The elevated anion concentrations are likely due to the naturally elevated TDS found in the groundwater at the site. However, nitrate-nitrite concentrations ranged from 48 mg/L to 75 mg/L and exceeded the current NMWQCC standard and USEPA MCL for nitrate (10 mg/L) in all the monitoring well samples. Due to the nature of potential contaminant sources at OT-37, the high nitrate-nitrite values may not be simply attributed to the naturally elevated TDS.

Data summary tables and a sample location figure for the surface soil, subsurface soil, and groundwater samples collected during the OT-37 RI are included in Appendix A-4-1. The RI Report (Radian, 1992) recommended implementation of a RCRA corrective action remedy and that a pre-design investigation may be warranted to determine the extent of remediation required at OT-37.

2.5.4.2 Accelerated Corrective Measures Investigation

In 2007 an Accelerated Corrective Measures (ACM) investigation was conducted by Bhate at OT-37 to fill in the data gaps identified during the RI (Radian, 1992). All ACM data collection activities were conducted in accordance with the NMED approved *Final Accelerated Corrective Measures Work Plan Multiple Sites* (Bhate, 2007). The OT-37

ACM investigation consisted of re-sampling two hand auger locations (HA-37-04 and HA-37-14) from the Radian RI, drilling 10 shallow direct push technology (DPT) boreholes (OT37-DP01 through OT37-DP10) around the perimeter of the four concrete transformer pads, and drilling eight deep boreholes at each vertical launch pad and the inclined test track (OT37-SB08 through OT37-SB15). Four of the deep soil borings were converted into permanent monitoring wells (OT37-MW07 through OT37-MW10). A round of groundwater samples were collected from four existing monitoring wells (OT37-MW01, OT37-MW04, OT37-MW05, and OT37-MW06), and from four new wells. Additionally, a sample of the tar that sporadically covers the ground surface in the vicinity of the inclined test track was collected for analysis.

The following subsections provide a brief summary of the results from the OT-37 ACM investigation. The complete results and conclusions for the OT-37 ACM investigation are included in the *Final Release Assessment Report Site OT-37* (NationView, 2011a). The analytical results summary tables and sample location figures for the soil and groundwater samples collected during the OT-37 ACM are included in Appendix A-4-2.

Transformer Pad Soil Results

Twenty two samples collected from the ten shallow soil borings were analyzed for TPH (GRO, DRO, and ORO) and PCBs. The combined concentrations of the TPH fractions for each sample were below the TPH screening guidelines, residential direct exposure for an unknown oil (NMED, 2012a). The maximum concentration of PCBs (0.21 mg/kg [Aroclor 1260]) was below the current NMED SSL (NMED, 2012a). Additionally, PCBs were not detected in the two hand auger borings that were re-sampled (HA-37-04 and HA-37-14) and the tar like substance (OT37-TAR) found on the ground surface surrounding the inclined test track.

Vertical Launch Pad Facilities and the Inclined Test Track Soil Results

Eighteen soil samples collected from eight soil borings advanced around the perimeter of the four former launch facilities were analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), PCBs, perchlorate, and RCRA metals. No PCBs were detected above the MDL and all VOCs, SVOCs, and perchlorate were detected at concentrations well below the current NMED residential SSLs (NMED, 2012a). Only estimated concentrations of TPH-GRO and TPH-DRO were detected in the subsurface soil samples. Five RCRA metals were detected above the MDL. With the exception of arsenic, each RCRA metal was detected below its respective residential SSL (NMED, 2012a). Arsenic was detected in eight soil samples collected from five soil borings above the SSL (3.9 mg/kg) with concentrations ranging from 4.1 to 10 mg/kg. These detections of arsenic are slightly above the SSL and most likely represent the natural variability in soil geochemistry.

Groundwater Analytical Results

Groundwater samples were collected from eight monitoring wells and analyzed for

VOCs, SVOCs, RCRA metals, PCBs, perchlorate, and TDS. All detected VOCs and SVOCs were well below the USEPA MCLs and the NMWQCC standards. Additionally PCBs were not detected in any of the groundwater samples. Perchlorate was detected in each OT-37 groundwater sample with concentrations ranging from 1.3 (OT37-MW09) to 6.7 µg/L (OT37-MW10). However all perchlorate detections were below the USEPA Interim Drinking Water Health Advisory standard of 15 µg/L (USEPA, 2008). Five RCRA metals were detected above the MDL. With the exception of arsenic, the other RCRA metals were detected below their respective USEPA MCLs and NMWQCC groundwater standards. Arsenic was detected in 4 of the 10 groundwater samples collected above the USEPA MCL (10 µg/L) with concentrations ranging from 11J to 18 µg/L. TDS concentrations ranged from 5,200JQ (Q is a laboratory data qualifier denoting an elevated reporting limit) mg/L (OT37-MW09) to 22,000JQ mg/L (OT37-MW08) and exceeded the NMWQCC standard of 1,000 mg/L at each well. TDS concentrations also exceeded 10,000 mg/L in seven of the eight OT-37 monitoring wells with the exception being OT37-MW09.

2.5.4.3 Accelerated Corrective Measures Addendum Investigation

In 2010 the ACM Addendum Investigation was conducted by NationView to characterize the quantity, concentration, and extent of nitrate, perchlorate, and arsenic previously detected above action levels in groundwater and soil samples collected at the three vertical launch facilities and the inclined test track at OT-37. The second objective of the ACM Addendum expanded investigation was to determine if historical detections of nitrate in groundwater (1991 RI and the 2008 HAFB Background Study) were from a geogenic (natural) or an anthropogenic (human) source. The OT-37 ACM Addendum expanded investigation consisted of collecting composite surface soil samples at 16 locations around the perimeter of each of the vertical launch facilities and inclined test track. Nine deep boreholes were drilled both up and downgradient of the vertical launch facilities and inclined test track. Each of the nine deep soil borings were converted into permanent monitoring wells. A round of groundwater samples were collected from 18 onsite monitoring wells and analyzed for TAL metals, perchlorate, nitrate, ammonia, TDS, and specific conductivity. Additionally, seven groundwater samples were collected from selected monitoring wells for isotopic nitrate ($\delta^{15}N_{nitrate}$ [delta-nitrate-nitrogen] and $\delta^{18}O_{nitrate}$ [delta-nitrate-oxygen]) analysis. The seven groundwater samples were also analyzed for isotopic tritium (to determine the age of the groundwater), chloride, sulfate, and alkalinity. The analytical results summary tables and sample location figures for soil and groundwater samples collected during the OT-37 ACM Addendum are included in Appendix A-4-3.

<u>Composite Surface Soil Results</u>

Eighteen composite surface samples collected from the sixteen locations around the perimeter of each of the three vertical launch facilities and the inclined test track were analyzed for TAL metals, perchlorate, and nitrate. With the exception of lead, each TAL metal was detected below its respective residential SSL (NMED, 2012a). Lead was detected in one soil sample (OT37-SS14-02) at a concentration of 496 mg/kg, above

the SSL (400 mg/kg). Perchlorate was detected in three surface soil samples at concentrations below the NMED SSL (54.8 mg/kg). Nitrate was detected in 16 surface soil samples at concentrations well below the current NMED SSL (125,000 mg/kg).

Subsurface Soil Results

Twenty subsurface soil samples collected from the nine hollow stem auger borings located both up and downgradient of the vertical launch facilities and the inclined test track were analyzed for TAL metals, perchlorate, and nitrate. None of the TAL metals or nitrate concentrations detected in these samples exceeded current NMED SSLs. Additionally, perchlorate was not detected in any subsurface soil samples collected as part of the OT-37 ACM Addendum investigation.

Groundwater Analytical Results

Groundwater samples were collected from 18 onsite monitoring wells and analyzed for TAL metals, perchlorate, nitrate, ammonia, TDS and specific conductivity. Additionally, eight groundwater samples (including one duplicate) were collected from monitoring wells OT37-MW06, -MW09, -MW10, -MW11, -MW15, -MW16, and -MW18 for isotopic nitrate ($\delta^{15}N_{nitrate}$ and $\delta^{18}O_{nitrate}$), isotopic tritium, chloride, sulfate, and alkalinity analysis.

Five of the TAL metals (aluminum, arsenic, lead, manganese, and thallium) were detected above their respective USEPA MCLs and/or NMWQCC groundwater standards. TDS concentrations ranged from 5,330 mg/L (OT37-MW19) to 25,700 mg/L (OT37-MW08) and exceeded the NMWQCC standard of 1,000 mg/L and the USEPA Secondary Drinking Water Standard (500 mg/L) in all the monitoring wells. Perchlorate was detected above the USEPA Interim Drinking Water Health Advisory standard (15 µg/L) only in the groundwater sample collected from OT37-MW15 (Central Vertical Launch Pad downgradient well located within the Lost River Basin) at a concentration of 17 µg/L and 15 µg/L (duplicate sample).

Nitrate concentrations ranged from 5.6 mg/L (OT37-MW19) to 143 mg/L (OT37-MW16) and exceeded the USEPA MCL (10 mg/L) and the NMWQCC groundwater standard (10 mg/L) in 17 of the 18 groundwater samples collected during this investigation. Ammonia was detected above the MDL in one groundwater sample (OT37-MW12) and was not detected in the remaining 19 OT-37 groundwater samples collected during this investigation. Currently there are no applicable action levels (USEPA or NMWQCC) or other applicable screening criteria available for ammonia. Specific conductivity concentrations ranged from 5,990 to 26,900 micromhos per centimeter (µmhos/cm) with an average specific conductivity of 15,767 µmhos/cm. Chloride and sulfate were detected above their USEPA Secondary MCLs (250 mg/L) but were below their HAFB groundwater UTLs (35,039.73 mg/L and 17,418.99 mg/L, respectively) in each of the seven groundwater samples collected during this sampling event.

Isotopic nitrate ($\delta^{15}N_{nitrate}$ and $\delta^{18}O_{nitrate}$) and tritium analysis indicated that the nitrate detected at OT-37 was potentially geogenic in nature. For a detailed discussion

covering the isotopic analyses performed on OT-37 groundwater samples, along with conclusions drawn from this data, refer to the *Final Release Assessment Report Site OT-37, Holloman Air Force Base, New Mexico* (NationView, 2011a). Based on data collected during the 2011 AOC-U RFI, the source of nitrate observed in groundwater at both Site OT-37 and within the Lost River Basin does not appear to be from a geogenic (natural) source.

2.5.5 OT-38 Test Sled Maintenance Area

The Test Sled Maintenance Area (OT-38) is a SWMU and is listed on Table A of the HAFB RCRA Permit as the Building 1166 Test Track Drain Field, SWMU 137. The Test Sled Maintenance Area is located adjacent to the Test Sled Track and north of the Lost River Basin (Figure 2-3). From 1951, when the test track became operational, until 1979, waste oils, solvents, and paint strippers used in the sled industrial maintenance area (Building 1166) were suspected of being discharged into the area's septic tank drain field (cesspool) behind Building 1166. Since 1979, all wastes have been accumulated in 55-gallon drums and turned over to the Defense Reutilization and Marketing Office (DRMO) for disposal or recycling. Personnel from the Exterior Plumbing Department indicated that the cesspool consisted of an unlined cavity below the ground surface that was about 6 ft deep and 10 ft long. In the late 1980s, the cesspool was replaced with a septic tank and leach field (approximately 150 ft of perforated polyvinyl chloride [PVC] pipe) which was installed at the former cesspool location. The personnel that installed the septic tank reported that wastes were not apparent in the former cesspool location.

OT-38 was initially identified as an IRP site in the IRP Records Search conducted in 1983 (CH2M Hill, 1983). The Test Sled Maintenance Area was later identified as SWMU 137 in the RFA Report (A.T. Kearney, 1988). The RFA Report stated that there was a high potential for releases to the soil and groundwater from hydrocarbon constituents.

2.5.5.1 Remedial Investigation

OT-38 was initially investigated during the 29 Waste Sites RI conducted in 1991 (Radian, 1992). The RI focused on a potential release to the environment from the former cesspool (drain field). Field activities conducted during the OT-38 RI included the installation of two soil borings (SB-38-01 and SB-38-02) adjacent to the former cesspool and three monitoring wells (MW-38-01 through MW-38-03) to determine whether a release to the groundwater had occurred. A composite soil sample was collected from each soil boring and analyzed for VOCs, metals, and petroleum hydrocarbons. The groundwater samples collected from the three monitoring wells were analyzed for VOCs, metals, TDS, and water quality parameters. The results and conclusions of the RI are briefly discussed below.

All metals that were detected in the four composite soil samples were below their respective residential SSLs (NMED, 2012a). Petroleum hydrocarbons were detected in

each of the soil samples. The highest concentration of TRPH (1,540 mg/kg) was detected in the soil sample collected from the 0 to 10 ft bgs interval in SB-38-02. This concentration exceeded the TPH Screening Guideline for an unknown oil (1,000 mg/kg) (NMED, 2012a). Additionally all detected VOCs were estimated concentrations below their respective residential SSLs (NMED, 2012a).

VOCs detected in the groundwater samples collected from the three monitoring wells were all below their respective NMWQCC Groundwater Standards and USEPA MCLs. With the exception of a singular antimony detection of 0.14 mg/L in MW-38-02, above the USEPA MCL of 0.006 mg/L, all metals were below their respective NMWQCC groundwater standards and USEPA MCLs. TDS concentrations ranged from 5,500 to 15,000 mg/L and exceeded the NMWQCC standard (1,000 mg/L) for each well. However, the average TDS concentration for these wells (11,833 mg/L) exceeds the allowable limits for TDS (10,000 mg/L) for the groundwater to be considered a viable drinking water source (Class IIIB water resource). Additionally, most of the concentrations for chloride, sulfate, fluoride, and nitrate (anions) also exceeded their respective NMWQCC standards. Excluding the nitrate-nitrite, the elevated anion concentrations at OT-38 are likely due to the naturally elevated TDS found in the groundwater at the site. Nitrate-nitrite concentrations ranged from 110 mg/L to 130 mg/L and exceeded the NMWQCC standard and USEPA MCL of 10 mg/L by over 10 times. Concentrations of nitrate-nitrite this high in groundwater potentially point to an anthropogenic source of nitrate.

The analytical results and sample locations for the subsurface soil and groundwater samples collected during the OT-38 RI are included in Appendix A-5-1. The RI Report (Radian, 1992) determined that there were no risks to human health or the environment and recommended NFA for OT-38.

2.5.5.2 Accelerated Corrective Measures Investigation

In 2007 an ACM investigation was conducted by Bhate at OT-38 to fill in the data gaps identified in the RI Report (Radian, 1992). The ACM data collection activities were conducted in accordance with the NMED approved *Final Accelerated Corrective Measures Work Plan Multiple Sites* (Bhate, 2007). The OT-38 ACM investigation consisted of advancing three shallow boreholes (OT38-DP01 through OT38-DP03) around the boundary of the former cesspool and three additional boreholes (OT38-DP04 through OT38-DP06) along the length of the existing drainpipe. Additionally a round of groundwater samples were collected from the three previously installed monitoring wells (MW-38-01 through MW-38-03).

The following subsections provide a brief summary of the results for the OT-38 ACM investigation. The complete results and conclusions for the OT-38 ACM investigation will be included in the ACM Multiple Sites Completion Report. The analytical results summary tables and sample location figures for the soil and groundwater samples collected during the OT-38 ACM are included in Appendix A-5-2.

Soil Results

Eighteen soil samples collected from six soil borings were analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), PCBs, and RCRA metals. Only estimated concentrations of VOCs, SVOCs, and TPH fractions were detected, and all detections were well below the NMED residential SSLs and the TPH screening guidelines for an unknown oil. Additionally PCBs were not detected in any of the soil samples. Five RCRA metals were detected above the MDL. With the exception of arsenic, each RCRA metal was detected below its respective NMED residential SSL (NMED, 2012a). Arsenic was detected in one soil sample (OT38-DP06-9) above the SSL (3.9 mg/kg) at a concentration of 5.5 mg/kg. This detection of arsenic slightly above the SSL most likely represents the natural variability in soil geochemistry.

Groundwater Results

Groundwater samples were collected from the three previously installed monitoring wells and analyzed for VOCs, SVOCs, PCBs, perchlorate, RCRA metals, and TDS. All detected VOCs and SVOCs were below the USEPA MCLs and the NMWQCC standards. Additionally PCBs were not detected in any of the groundwater samples. Perchlorate was detected in each groundwater sample with concentrations ranging from 4.8 µg/L (MW-38-01) to 5.1 µg/L (MW-38-03). However, the perchlorate detections were all below the USEPA Interim Drinking Water Health Advisory standard of 15 µg/L (USEPA, 2008). Three RCRA metals were detected above the MDL. With the exception of arsenic, the other RCRA metals were detected below their respective USEPA MCLs and NMWQCC groundwater standards. Arsenic was detected in one groundwater sample (MW-38-02) slightly above the USEPA MCL of 10 µg/L at a concentration of 11J µg/L. TDS concentrations ranged from 8,400Q mg/L (MW-38-03) to 12,000Q mg/L (MW-38-02) and exceeded the NMWQCC standard of 1,000 mg/L at each well.

2.5.6 SS-39 Missile Fuel Spill Area

The Missile Fuel Spill Area (SS-39) comprises four SWMUs (165, 177, 179, and 181) that are listed on Table A of the HAFB RCRA Permit. SS-39 is located immediately south of Building 1176 along the northern perimeter of the Lost River Basin (Figure 2-3). SS-39 is located downgradient of Building 1176 which is part of the Test Sled Facility. Historically, spilled oxidizers and fuels were delivered to separate drains, diluted with water, and flushed into the Lost River. In 1975, catch basins were installed to collect spilled liquid fuels. Initially, during the IRP Records Search (CH2M Hill, 1983), SS-39 was limited only to the Test Sled Launch Area Collection Basin. This was a 30 ft by 20 ft surface impoundment that collected water used for reducing the velocity of vehicles on the sled test track. Fuel spills from the test track had reportedly been flushed into the Test Sled Launch Area Collection Basin. As a result of the RCRA Facility Assessment (A.T. Kearney, 1988), SS-39 was expanded to include the Discharge Box (SWMU 179), the Building 1176 Drainage Troughs (SWMU 177) and Drainage Sumps

(SWMU 181), and the Building 1176 Pond (SWMU 165). SWMU 165 was identified and photographed between Building 1176 and the Lost River Basin (A.T. Kearney, 1988) however the pond's exact location has subsequently never been determined. Figures which illustrate the locations of the referenced SS-39 SWMUs are included in Appendix A-6-1.

2.5.6.1 Remedial Investigation

The SS-39 Missile Fuel Spill Area was initially investigated during the 29 Waste Sites RI conducted in 1991 (Radian, 1992). The SS-39 RI consisted of completing two soil borings (SB-39-01 and SB39-02), five hand auger borings (HA-39-01 through HA-39-05), and the installation and sampling of four monitoring wells (MW-39-01 through MW-39-04) located within outfalls and drainages throughout the site. Soil samples were analyzed for VOCs, metals, and petroleum hydrocarbons and groundwater samples collected from the four monitoring wells were analyzed for VOCs, metals, TDS, and anions. The results and conclusions of the RI are briefly summarized below.

Lead and arsenic were detected above current NMED SSLs in soil samples collected near the oxidizer and propellant spill outfalls; the maximum concentration of lead (1,300 mg/kg) was detected in HA-39-02 above the NMED residential SSL (400 mg/kg). The maximum concentration of arsenic (34@ mg/kg, @ is a laboratory qualifier denoting a measured result less than 5 times the detection limit) was detected in HA-39-03 above the NMED SSL (3.9 mg/kg). With the exception of tetrachloroethene (PCE) and TCE, all VOCs were detected below their respective NMED residential SSL (NMED, 2012a). Tetrachloroethene was detected in one soil sample collected from the Building 1176 drainage sump borehole (SB-39-02) above the SSL (7.02 mg/kg) at a concentration of 95 mg/kg. Trichloroethene was detected in two soil samples collected from the Building 1176 drainage sump boreholes (SB-39-01 and SB-39-02) above the SSL (8.77 mg/kg) at concentrations of 40 mg/kg and 11 mg/kg, respectively. Additionally, TPH was detected above the TPH Screening Guideline for the residential direct exposure of unknown oil (1,000 mg/kg) (NMED, 2012a) in soil samples HA-39-04 (20,700 mg/kg) and SB-39-02 (2,620 mg/kg).

Metals were not detected in groundwater samples above the NMWQCC standards or the USEPA MCLs. VOCs were detected in groundwater above current action levels in monitoring well MW-39-02 located downgradient of the Building 1176 drainage sump. VOCs detected in MW-39-02 above the NMWQCC standards and/or USEPA MCLs included TCE (59 µg/L), carbon tetrachloride (5.8@ µg/L), 1,1,1-trichloroethane [1,1,1-TCA] (240 µg/L), and 1,1-dichloroethene [1,1-DCE] (9.6 µg/L). TDS concentrations exceeded the NMWQCC standard (1,000 mg/L) and ranged from 2,600 mg/L to 14,000 mg/L with the maximum concentration detected in the groundwater sample from MW-39-03. Nitrate-nitrite concentrations ranged from 0.52 mg/L to 87 mg/L, and exceeded the NMWQCC standard and USEPA MCL (10 mg/L), for nitrate, in three of the four groundwater samples. Chloride and sulfate were detected above their USEPA Secondary MCLs (250 mg/L) in three of the four wells sampled during this event, but

were below their HAFB groundwater UTLs (35,039.73 mg/L and 17,418.99 mg/L, respectively). Fluoride was detected above the NMWQCC Groundwater Standard (1.6 mg/L) in two wells, MW-39-01 and MW-39-03, at concentrations of 1.8 mg/L and 1.9 mg/L, respectively.

The analytical results and sample locations for the soil and groundwater samples collected during the SS-39 RI are included in Appendix A-6-1. The RI Report (Radian, 1992) concluded that this evaluation indicated an unacceptable risk.

2.5.6.2 RCRA Facility Investigation

To address the concerns of the RI, Radian performed a RFI in 1993 to further delineate the VOCs, petroleum hydrocarbons, and metals contamination that was identified during the RI. During the RFI (Radian, 1994) soil samples were collected from 10 soil borings (179-B01 through 179-B08 and 181-B01 and 181-B02) and hand auger locations (179-A01 through 179-A05) installed along drainage ditches and below oxidizer and propellant outfalls. Soil samples were analyzed for SVOCs and metals. Additionally groundwater samples were collected form 15 temporary sampling locations using DPT methods and field screened for VOCs. Eight groundwater samples (177-H01 through 177-H04 and 179-H01 through 179-H04) were then submitted for off-site confirmation analysis for Halogenated VOCs.

The analytical results and sample locations for the soil and groundwater samples collected during the SS-39 RFI are included in Appendix A-6-2. SVOCs and metals were not detected in any of the RFI soil samples above the NMED residential SSLs. The groundwater data indicated that TCE was above the USEPA MCL at six locations with concentrations ranging from 27.6 to 2,730 µg/L. Furthermore 1,1,1-TCA (418 µg/L) and 1,1-dichloroethane (1,1-DCA) (65.4 µg/L) were detected above the NMWQCC standards at one location (177-H03). Additionally, vinyl chloride was detected at a concentration of 3.83 KJ µg/L in 177-H02 [K is a laboratory data qualifier denoting that the peak did not meet method identification criteria] which is above the NMWQCC standard (1 µg/L).

Additionally data was collected from flora and fauna from the Lost River Basin to support an ecological risk assessment. The assessment concluded that there was not an unacceptable risk to ecological receptors. Therefore a Decision Document for NFA was prepared and submitted in September 1995, but was never signed by NMED.

2.5.6.3 Additional Groundwater Sampling Event

In May/June 1998, GTI collected groundwater samples from 16 locations (SS39-1 through SS39-16) to delineate the extent of the TCE plume that was previously characterized during the RI and RFI studies conducted at SS-39. The work was performed to fulfill a request for supplemental information by the NMED based on the RFI Report. Groundwater samples were analyzed for VOCs and soil samples were not collected for chemical analysis.

A map showing the groundwater sample locations and an analytical sample summary table for this additional sampling event are included in Appendix A-6-3. TCE was detected the above NMWQCC standard (100 µg/L) and/or the USEPA MCL (5 µg/L) at seven locations (SS39-1, -2, -4, -7, -8, -13, and -14). The concentrations of TCE in these samples ranged from 27 µg/L to 280 µg/L. These TCE detections were from sampling points located 300 to 500 ft south-southwest of Building 1176; however the downgradient extent of the TCE plume was delineated by sample points which yielded non-detectable TCE results. With the exception of benzene (1.0 µg/L) detected in SS-39-9, all other VOCs were detected below the reporting limit (RL). The Additional Groundwater Sampling Report recommended NFA for SS-39 based on this data (GTI, 1998a).

2.5.6.4 Groundwater Long Term Monitoring

Long Term Monitoring (LTM) at Site SS-39 began in 1997 and continued on a biennial basis until December 2005. The data from the 2005 LTM Report (Bhate, 2006) shows that TCE, carbon tetrachloride, and chloroform had been consistently detected in monitoring well MW-39-02 (located downgradient of Building 1176). Following review of the 2003 LTM Report and previous site investigation reports, NMED determined that an additional investigation was required to fill in data gaps at SS-39.

2.5.6.5 Supplemental RCRA Facility Investigation

Supplemental RFI activities were performed at SS-39 between May and July 2006. The following information was obtained from the Supplemental RFI Report (HydroGeoLogic, Inc., 2007). The SS-39 Supplemental RFI included the collection of additional soil, sediment, and groundwater samples throughout the site. During the Supplemental RFI, five soil borings (SB-39-01R, SB-39-02R, HA-39-01R, HA-39-02R, and SB-39-17) were advanced for the collection of additional subsurface soil samples adjacent to several of the 1991 RI borings. Eleven soil samples were collected from these borings and analyzed for unsymmetrical dimethylhydrazine (UDMH), aniline, and RCRA metals. Additionally, one sediment sample (SD-39-01) was collected from the Concrete Collection Basin and analyzed for SVOCs, UDMH, aniline, and RCRA metals.

As part of the Supplemental RFI, four permanent monitoring wells (MW-39-05, MW-39-06, MW-39-06D, and MW-39-07) were installed along the edge of the Lost River Basin. Additionally, five hand augered pre-pack monitoring wells (MW-39-08 through MW-39-12) were installed to collect groundwater samples from within the Lost River Basin. During this investigation, one round of groundwater samples was collected for offsite analysis from the nine new wells and one previously installed monitoring well (MW-39-02). During the July 2006 Supplemental RFI groundwater sampling event, the 10 monitoring wells were sampled for VOCs, RCRA metals (total and dissolved), perchlorate, UDMH, aniline, and TDS. A summary of the sample results from the Supplemental SS-39 RFI is presented below.

Sediment Sampling

Three SVOCs and six RCRA metals were detected in the sediment sample (SD-39-01) collected from the Concrete Collection Basin. Of the detected SVOCs and metals, only lead (1,430 mg/kg) was detected at a concentration exceeding a NMED residential SSL (400 mg/kg) (NMED, 2012a). A summary of the sediment analytical results are included in Appendix A-6-4.

Subsurface Soil Sampling

Two subsurface soil samples were collected from each of the five boreholes from approximately 2 to 4 and 8 to 10 ft bgs. UDMH and aniline were not detected in the subsurface soil samples. Of the seven RCRA metals detected, two (arsenic and lead) were detected above the NMED residential SSLs in two samples (HA-39-01R and SB-39-02R). The detection of arsenic (8.27 mg/kg) in the 2 to 4 ft interval from HA-39-01R was above the NMED residential SSL of 3.9 mg/kg (NMED, 2012a). Additionally, lead (612 mg/kg) detected in the 8 to 10 foot interval of SB-39-02R exceeded the current NMED residential SSL of 400 mg/kg. A summary table of the soil analytical results and a figure showing the constituents that exceeded action levels in these soil borings are included in Appendix A-6-4.

Groundwater Sampling

During the July 2006 Supplemental RFI groundwater sampling event, 13 VOCs, 1 metal, and perchlorate were detected in the SS-39 monitoring wells. UDMH and aniline were not detected in groundwater samples collected during the Supplemental RFI sampling event. Of the 13 detected VOCs, TCE was the only constituent detected above the USEPA MCL (5 µg/L) and the NMWQCC standard (100 µg/L). TCE was detected in groundwater above the USEPA MCL in six monitoring wells (MW-39-02, MW-39-05, MW-39-06, MW-39-06D, MW-39-08, and MW-39-11). The maximum concentrations of TCE were detected in monitoring wells MW-39-06 (366J µg/L) and MW-39-06D (113 µg/L). Barium (total) was the only RCRA metal to be detected in groundwater during the Supplemental RFI at a concentration of 19 µg/L in MW-39-07. This detection was below the respective NMWQCC standard (1,000 µg/L) and USEPA MCL (2,000 µg/L). Dissolved metals data for the July 2006 groundwater sampling event were rejected by the laboratory, and therefore not reported (HGL, 2007).

At the request of NMED, the groundwater was also analyzed for perchlorate and TDS. Perchlorate was detected in each SS-39 groundwater sample with concentrations ranging from 12 (MW-39-02) to 130 µg/L (MW-39-09, MW-39-10, and MW-39-11). The perchlorate concentrations in MW-39-05, MW-39-06, MW-39-06D, MW-39-07, MW-39-08, MW-39-09, MW-39-10, MW-39-11, and MW-39-12 were all above the USEPA Interim Drinking Water Health Advisory standard of 15 µg/L (USEPA, 2008). Additionally, TDS concentrations in the vicinity of the TCE groundwater plume ranged from 16,300 mg/L to 136,000 mg/L. All of the TDS concentrations within the TCE plume exceeded the NMWQCC standard (1,000 mg/L) and are above 10,000 mg/L (Class IIIB

water resource, groundwater designated as unfit for human consumption). A summary table of the groundwater analytical results and a figure showing the constituents that exceeded USEPA MCLs and NMWQCC standards in these groundwater samples are included in Appendix A-6-4.

2.5.7 LF-40 Causeway Rubble Disposal Area

The Causeway Rubble Disposal Area is a SWMU, and is listed on Table B of the HAFB RCRA Permit as SWMU 103. LF-40 is located south of the Sled Test Track Area and south of OT-38 (Figure 2-3). This disposal area was a staging area for construction debris including concrete, steel reinforcing bars, and asphalt from the Sled Test Track that was used as a base construction material staging area for the causeway that crosses the west end of the Lost River Basin. LF-40 was approximately ¼-mile long, 40 ft wide and five ft high.

2.5.7.1 IRP Records Search and RFA

LF-40 was initially identified as an IRP site in the IRP Records Search conducted in 1983 (CH2M Hill, 1983). Since no hazardous material was known to be associated with the concrete rubble and construction debris, the site was not rated in the IRP Records Search Report. The RFA Report (A.T. Kearney, 1988) identified LF-40 as SWMU 103 and concluded that there was no potential for release to any environmental media as there was no evidence that hazardous wastes or constituents had ever been managed at this unit.

2.5.7.2 Site LF-40 NFA Decision Document

Based on the findings stated in the IRP Records Search and RFA Reports, the Causeway Rubble Disposal Area, LF-40 (SWMU 103) was selected for NFA. The IRP Site LF-40 Decision Document for NFA was prepared and approved by NMED in 1993 (EA Engineering, 1993). A copy of the approved LF-40 Decision Document is included in Appendix A-7-1.

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3 ENVIRONMENTAL SETTING

The following subsections present the environmental setting. This information was obtained primarily from the *Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites* (Radian, 1992), unless cited otherwise.

3.1 Physiography and Topography

HAFB is located within the Sacramento Mountains Physiographic Province on the western edge of the Sacramento Mountains. HAFB is approximately 59,600 acres in area, and is located at a mean elevation of 4,093 feet above mean sea level (amsl). The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. The Base is located within the Tularosa Basin, which is part of a 170 mile long structural depression. The boarding mountains rise abruptly to altitudes of 7,000 to 12,000 feet amsl. The San Andres Mountains bound the basin to the west (about 30 miles) with the Sacramento Mountains approximately 10 miles to the east. At its widest point, the basin is about 60 miles east to west and stretches approximately 150 miles north to south (Figure 2-1).

The Tularosa Basin is a closed basin that contains all of the surface flow within its boundaries. Surface runoff from the surrounding mountains has deposited alluvial fans on the interior of the plain. Around the base, the ground surface is undulating comprised of alluvial fan deposits, eolian dunes, and flat bottomed playas (pan shaped depressions carved by wind erosion). To the west of the Base lie the gypsum sand dune fields of the White Sands National Monument. A topographic map of the base is provided as Figure 3-1.

3.2 Surface Water and Hydrology

Within the boundaries of the Base, surface water runoff is controlled by several arroyos which trend to the southwest (Figure 3-2). The nearest inflow of surface waters to the Base comes from the Lost River, located in the north-central region of the Base. HAFB is dissected by several other southwest trending arroyos that control the surface drainage. Hay Draw arroyo is located in the far north. Malone and Ritas Draw, which drain into the Lost River, and Dillard Draw arroyos are located along the eastern perimeter of the Base. Approximately 10,000 years ago, indications are of a much wetter climate. The present day Lake Otero encompassed a much larger area, possibly upwards of several hundred square miles. Its remains are the Alkali Flat and Lake Lucero. Lake Lucero is a temporary feature of merely a few inches in depth during the rainy season.

Ancient lakes and streams deposited water bearing deposits over the older bedrock basement material. Fractures, cracks, and fissures in the Permian and Pennsylvanian bedrock yield small quantities of relatively good quality water in the deeper peripheral.

Potable water is only found from a handful of wells near the edges of the basin with more saline water towards the center. Two of the principal sources of potable water are a long narrow north-south trending area east of Tularosa and Alamogordo and in the far southwestern part of the basin. Alamogordo's water, as well as the Base's, is supplied from Lake Bonito (which is in the Pecos River Basin).

3.3 Regional Geology

The Tularosa Basin is the easternmost extension of the Basin and Range Province of the western United States. The Basin and Range was created by Cenozoic extensional (normal) faulting of Precambrian- through Tertiary-age sedimentary and igneous rocks. The basin is a graben, or downthrown block, bounded by the upthrown fault blocks of the San Andres and Sacramento Mountains.

During the Permian period of the Paleozoic era (approximately 270 million years ago), southern New Mexico was covered by a shallow sea. Limestone and sandstone were deposited, forming thick sedimentary units. Toward the end of the Mesozoic era (approximately 70 million years ago), the major mountain building activities which formed the Rocky Mountains took place. During these events, southern New Mexico emerged from the ocean as the earth's crust upwarped gently in this region. During the Cenozoic era (beginning approximately 70 million years ago), basin and range formation was initiated in what is now the southwestern United States. Approximately 10 million years ago, Cenozoic faulting formed the graben structure known as the Tularosa Basin. During this process, arched portions of rock collapsed between large-scale, north-south trending faults. The Tularosa Basin is a central downthrown area, bounded on the east and west by fault block mountains. Bedded Permian strata can be seen along the faces of the Sacramento and San Andres Mountains. Permian limestones also occur west of HAFB in a low bedrock outcrop near Hurtz Spring. In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e. Tularosa Basin). Water carrying eroded limestone, dolomite, gravel, and other matter continue to flow into the basin. A generalized cross-section of the Tularosa Basin is shown in Figure 3-3.

As the Tularosa Basin is a bolson, which is a basin with no surface drainage outlet, sediments carried by surface water into a closed basin are bolson deposits. The overlying alluvium generally consists of unconsolidated gravels, sands, and clays. The bolson sediments within the Tularosa Basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite, and gypsum. Coarser material is deposited at the base of the mountains while finer material is carrier to the basin's interior. The bolson fill deposits thin out from Alamogordo to less than 100 feet near Hurtz Spring. Bolson fill deposits are 8,000 feet thick or more in the central portion of the Tularosa Basin.

Near-surface geologic conditions at HAFB have been established during this and numerous other ERP investigations. The near-surface bolson deposits at HAFB consist

of sediments that are alluvial, eolian, and lacustrine in origin. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable because the wind simultaneously reworks alluvial fan sediments and deposits gypsum sands resulting in an intermingling of the two sediment types. The playa, or lacustrine deposits, consist of medium to high plastic clay containing gypsum crystals and are contiguous with the alluvial fan and eolian deposits throughout HAFB. There has been the identification of stiff caliche layers, varying in thickness, at different areas of the Base. A generalized near surface cross-section for HAFB is shown in Figure 3-4.

3.4 Soils

The United States Department of Agriculture (USDA) Soil Conservation Service has identified two soil associations in the vicinity of HAFB; the Holloman-Gypsum Land-Yesum complex, and the Mead silty clay loam. The permeability of these horizons ranges from $4x10^{-4}$ to 1 $x10^{-3}$ centimeters per second. The distribution of soils in the vicinity of HAFB is depicted on Figure 3-5 (USDA, 1981).

The Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes soil consists of large areas of shallow and deep, well drained soils and areas of exposed gypsum. The Holloman soil makes up about 35 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 13 inches of the substratum is pink very fine sandy loam that is very high in gypsum. Below that, the substratum is white gypsum to a depth of more than 60 inches. This soil is calcareous and mildly alkaline to moderately alkaline throughout. Permeability is moderate, and available water capacity is very low.

Gypsum land makes up about 30 percent of the Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes. Typically, less than 1 inch of very fine sandy loam overlies soft to hard, white gypsum. The deep Yesum very fine sandy loam makes up about 20 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 9 inches of the substratum is light brown fine sandy loam that is very high in gypsum. Below that, the substratum is pink very fine sandy loam to a depth of more than 60 inches. The soil is calcareous throughout and is mildly alkaline. Permeability is moderate, and available water capacity is moderate. Many fine gypsum crystals are found throughout the profile.

The soil type located across the main drainage area for the installation is Mead silty clay loam, 0 to 1 percent slopes. This deep, poorly drained, nearly level soil is on outer fringes of alluvial fans. This soil formed in fine textured alluvium over lacustrine lake sediment. It is very high in salt content because of periodic flooding and poor drainage. Slopes are smooth and concave. Typically, the surface layer is reddish brown silty clay loam and clay loam about 5 inches thick. The substratum, to a depth of 48 inches, is light reddish brown clay that has a high content of salts. Below that, the substratum is lacustrine material of variable texture and color to a depth of more than 60 inches.

Included with this soil are areas of Holloman soils and Gypsum land along the margins of the unit of steep, short gully sides and knolls. These inclusions make up about 15 percent of the map unit for this soil type. Individual areas are generally smaller than 10 acres. This soil is moderately calcareous throughout and is moderately to strongly alkaline. It has a layer of salt that is more soluble than gypsum. Permeability is very slow, and available water capacity is low.

3.5 AOC-U Site Geology

Site-specific geologic information has been obtained from the compilation of lithologic data from the soil borings hand augered during this RFI. Continuous lithologic logging was conducted for each borehole in accordance with the Unified Soil Classification System. The borehole logs for this investigation are included in Appendix B of this report.

The central portion of AOC-U generally has a thin (approximately 1/8-inch) layer of evaporite gypsum at the surface during its dry season (October through early July). The soils within AOC-U consist primarily of silty-sands with occasional thin bands of clay from the surface to a depth of approximately 2 ft bgs. A silty-clay with interbedded clay lenses occurs from 2 ft bgs to approximately 8 ft bgs.

3.6 Regional Hydrogeology

Groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream run-off along the western edge of the Sacramento Mountains. Surface water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area only leaves either through evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath HAFB, groundwater ranges from 5 to 50 ft bgs. Flow for the Base is generally towards the southwest with localized influences from the variations in the topography of the Base. In the northern and western portions of the Base, groundwater flows more to the west toward the Ritas Draw, Malone Draw, and Lost River drainages. Groundwater flow is affected by local topography in areas immediately adjacent to arroyos, where groundwater flows directly toward the drainages regardless of the regional flow pattern.

Figure 3-6 shows the basewide groundwater flow direction obtained from water level measurements collected during the 2002 LTM groundwater sampling event. Groundwater quality in the Tularosa Basin is of potable quality at the recharge areas in close proximity to the Sacramento Mountains and becomes increasingly mineralized toward the central portion of the basin and discharge areas (Radian, 1992). The majority (over 70 %) of the ERP Sites/Solid Waste Management Units located across HAFB have groundwater monitoring wells containing water with an average TDS

concentration greater than 10,000 mg/L. This TDS data supports the hypothesis that TDS concentrations below 10,000 mg/L at HAFB are caused by dilution of natural groundwater from leaking water lines and surface irrigation from the domestic water supply. TDS concentrations greater than 10,000 mg/L exceed the NMWQCC limit as potable water and thus, the groundwater beneath HAFB has been designated as unfit for human consumption. Additionally, based on the USEPA document, *Final Draft Guidelines for Groundwater Classification Under USEPA Groundwater Protection Strategy* (USEPA, 1986), the groundwater can be classified as Class III B. Class III B groundwater is characterized by having a TDS concentration greater than 10,000 mg/L, and a low degree of interconnection to adjacent surface waters or groundwater of a higher class. Because the Tularosa is a closed basin, its groundwater does not discharge or connect to any adjacent aquifer. Adjacent surface waters include groundwater surfacing in Lake Holloman. TDS in Lake Holloman ranges from a winter low of 12,400 mg/L to a summer high of 17,000 mg/L (Cole, et al., 1981); therefore, groundwater at Holloman AFB is not interconnected with surface water of a higher class.

3.7 AOC-U Site Hydrogeology/Hydrology

AOC-U (Lost River Basin) is a large drainage basin, which receives runoff from various SWMUs and ERP sites in the northern portion of HAFB. The basin remains dry for most of the year, but during periods of heavy rainfall, runoff enters the basin from surrounding areas. Malone Draw and Ritas Draw converge to form the Lost River, which then flows into the Lost River Basin (Figure 2-3). The Lost River is an intermittent feature supplied by surface water flows, seeps, and springs (HAFB, 2000). During dry periods, permanent water exists within AOC-U in three distinct areas. During high water events and the rainy season (late July through September) the three segments of permanent water are connected. Below the playa in the westernmost reach of AOC-U, the Lost River emerges, and flows into the dune fields of the WSMR.

Groundwater occurs within AOC-U in a shallow unconfined aquifer ranging from approximately 1.5 ft bgs to 12.5 ft bgs depending on spatial location within the Lost River Basin. Groundwater within the basin flows to the west-southwest, along the path of the Lost River. During heavy rain events and the rainy season the basin fills with water for a short period of time. Surface water and groundwater within the Lost River Basin are interconnected.

3.8 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature range (Western Regional Climate Center [WRCC], 2003). The climate of the Central Closed Basins varies with elevation. The Base is found in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100 degrees Fahrenheit (°F) in the summer months and are

in the middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid night time cooling resulting in average diurnal temperature ranges of 25 to 35°F. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation, usually less than 10 inches. The very low rainfall amounts resulting in the arid conditions, which with the topographically induced wind patterns combining with the sparse vegetation, tend to cause localized "dust devils". The annual rainfall for Alamogordo is 12 inches per year[1]. Much of the precipitation falls during the mid-summer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating to 30 to 40% of the annual total rainfall.

3.9 Current and Future Land Use

The land surrounding HAFB consists of residential areas to the east and northeast (City of Alamogordo), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. The desert terrain of the area immediately surrounding HAFB has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the Base. HAFB is an active military installation and is expected to remain active for the foreseeable future. No transfer of military property to the public is anticipated, and public access to the Base is restricted.

Residential development on the Base is limited by environmental and operational constraints imposed by the 100-year floodplain, historic sites, and areas identified under the Installation Restoration Program. Safety and noise zones also limit residential development on HAFB. Future plans for residential development on the Base include renovation of existing structures, replacement of inefficient buildings, and expansion into open areas in the southeast corner of the Base (HAFB, 2000). Future land use at AOC-U is not expected to differ significantly from current land use practices.

3.10 Current and Future Water Use

There are no potable water wells on HAFB. Potable water for the Base (Boles, Douglas, and San Andres well fields) and the city of Alamogordo is derived from the foot of the nearby Sacramento Mountains, just south of Alamogordo. According to a groundwater well inventory (Table 3-1) prepared by the New Mexico Office of the State Engineer, there are approximately 25 domestic, 15 commercial, 7 irrigation, and 3 livestock wells located within a 4-mile radius of Holloman AFB (New Mexico Water Rights Reporting System [NMWRRS] database, 2009). As shown on Figure 3-7, these wells are located along HAFB's northern and eastern boundaries (upgradient and cross gradient respectively).

[1] http://countrystudies.us/united-states/weather/new-mexico/

Due to low rainfall and high evaporation, surface water at HAFB is limited and, therefore, is not used for domestic or municipal purposes nor is it used for recreation or agriculture. The ponds in the southern part of the Base receive effluent from the National Pollution Discharge Elimination System (NPDES) permitted Wastewater Treatment Plant (WWTP) and are saline (normally about half the salinity of seawater), sulfate-rich, and very rich in nutrients. These ponds provide habitat for numerous plant and wildlife species, so water quality of these receiving waters is important.

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4 SOURCE CHARACTERIZATION

4.1 Potential Source Areas

As stated in Section 1, there are six known upgradient ERP sites that may have impacted AOC-U (Lost River Basin) via runoff from surface water tributaries and/or groundwater infiltration. The size of the area contributing to AOC-U lends itself to the potential for multiple source areas contributing to the groundwater contamination within the Basin. Currently, the nature and extent of soil and groundwater contamination resulting from historical releases from the upgradient ERP sites into the Lost River Basin have not been completely defined.

4.2 Previously Identified Contaminants of Concern

Based on all of the previous investigations described in Section 2.5 of this report, a number of chemicals have been detected above current regulatory limits. The contaminants of concern that have impacted the soil and groundwater at the ERP sites that are upgradient of AOC-U (Lost River Basin) are as follows:

- VOCs (TCE; PCE; 1,1-DCE; 1,1-DCA; 1,1,1-TCA; and carbon tetrachloride)
- Metals (arsenic, antimony, aluminum, manganese, thallium, selenium, and lead)
- TPH
- PCBs (Aroclor 1260)
- Nitrate
- Perchlorate

Although an isolated exceedence of the PCB Aroclor 1260 was detected at OT-37 during the 29 sites RI performed by Radian in 1991, Bhate performed sampling in 2007 during the ACM Investigation of OT-37 and PCBs were not detected in either soil or groundwater at the site.

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5 FIELD ACTIVITIES

This section presents a summary of the AOC-U RFI field activities performed by NationView between February 28 and July 14, 2011.

5.1 RCRA Facility Investigation

The primary objective of the RFI activities performed at AOC-U was to determine if the adjacent ERP sites had impacted the soil and water quality within the Lost River Basin watershed. The Lost River Basin is considered an environmentally sensitive area under agreement between HAFB, WSMR, the NPS, the USFWS, and the NMDGF to protect the Threatened White Sands pupfish. To meet the RFI objectives, the following activities were performed by NationView in 2011:

- Advanced 50 strategically placed hand auger boreholes within AOC-U to facilitate groundwater sample collection.
- Collected groundwater samples from the 50 hand augered boreholes in order to identify potential releases to groundwater.
- Analyzed groundwater samples for VOCs, SVOCs, TPH, TAL metals, nitrate, perchlorate, and TDS.
- Collection of one additional groundwater sample from a suspicious standpipe located adjacent to the Southern Vertical Launch Pad at Site OT-37 and analyzed for nitrate only.
- Collected three surface water samples from two distinct reaches of permanent water present within AOC-U.
- Analyzed surface water for VOCs, SVOCs, TPH, TAL metals, nitrate, perchlorate, TDS, potential of hydrogen (pH), hardness.
- Collected soil samples at 21 locations based on nitrate and perchlorate groundwater regulatory exceedences.
- Collect two surface soil samples at potential source areas identified while performing RFI sampling activities.
- Analyzed soil samples for VOCs, SVOCs, TPH, TAL metals, nitrate, perchlorate, and moisture content.
- Two geotechnical soil samples were collected from soil borings AOCU-HA12 and AOCU-HA91 to provide site geotechnical data.

5.2 Sampling and Analysis

Prior to sampling activities, a Base Dig Permit (AF Fm 103) with a utility clearance, was submitted and approved by the proper HAFB offices. All completed field and waste handling activities at AOC-U were performed in accordance with HAFB Standard Operating Procedures (SOPs), provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003), as outlined in the *Final RCRA Facility Investigation Work Plan, AOC-U Lost River Basin, Holloman Air Force Base, New Mexico* (NationView, 2009).

5.2.1 Groundwater Sampling and Analysis

In February and March 2011, grab groundwater samples were collected from each of the 50 hand augered soil borings located throughout the Lost River Basin to delineate the horizontal extent of potential groundwater contamination (Figure 5-1). The 50 soil borings were advanced using a 3.25-inch outer diameter (OD) stainless steel AMS® Inc., hand auger sampling bucket (coring tool) equipped with 5 foot extensions and quick-connect connections. Soils were visually classified in the field by a geologist according to the Unified Soil Classification System and screened using a MiniRae® 2000 photoionization detector (PID), with soil-headspace screening techniques. Soil boring logs for this RFI are included in Appendix B of this report. The borehole depths ranged from 4.5 ft bgs (AOCU-GW69) to 13.0 ft bgs (AOCU-GW08 and AOCU-GW17) and the depth to groundwater ranged from 1.0 ft bgs (AOCU-GW02) to 12.5 ft bgs (AOCU-GW17). Table 5-1 presents the borehole depths and approximate depth to groundwater for all of the hand augered boreholes advanced during this sampling event.

Grab groundwater samples were collected from the hand augered soil boring locations using a disposable Teflon bailer. As these were grab samples, field sampling parameters (e.g., pH, conductivity, dissolved oxygen, and temperature) were not collected prior to sampling. A new, factory wrapped bailer was used to sample groundwater from each soil boring.

A total of 61 grab groundwater samples including 5 duplicate, 3 matrix spike (MS) samples, and 3 matrix spike duplicate (MSD) samples were analyzed by Gulf Coast Analytical Laboratories (GCAL), Inc. in Baton Rouge, Louisiana and TestAmerica (TA), Laboratories Inc. in Denver, Colorado for the following parameters:

- VOCs by USEPA SW-846 Method 8260B
- SVOCs by USEPA SW-846 Method 8270C
- Perchlorate by USEPA Method 6860
- TPH (GRO, DRO, ORO) by USEPA SW-846 Method 8015B
- TAL Metals by USEPA SW-846 Method 6010B/7470A
- Nitrate by USEPA Method 353.2
- TDS by Standard Method (SM) 2540C

Additionally, grab groundwater sample location AOCU-GW91 was re-sampled in July 2011 (AOCU-GW91-R) and analyzed for nitrate and perchlorate in order to confirm initial laboratory results from March 2011. A second grab groundwater sample (AOCU-SA03) was collected in July 2011 from a suspicious standpipe located adjacent to the Southern Vertical Launch Pad at Site OT-37 and analyzed for nitrate only. Sample locations for these grab samples are illustrated on Figure 5-1.

All groundwater samples for TAL metals and perchlorate analysis were field filtered using a peristaltic pump, disposable ¼-inch polyethylene tubing and a disposable 0.45 micron filter. Groundwater samples which were submitted for chemical analysis are summarized in Table 5-2. All groundwater samples were placed in the appropriate containers, packed on ice at 4 degrees Celsius (ºC) and delivered under chain-of custody to GCAL and TA.

5.2.2 Surface Water Sampling and Analysis

Three grab surface water samples were collected from three reaches of the Lost River, where flowing water was encountered on March 6, 2011. The surface water sample locations are shown on Figure 5-1. Surface water samples were collected mid-depth from the center of Lost River (5 ft width). Grab surface water samples were collected by kneeling on an adjacent bank by collecting water directly into the sample container. For the sample aliquots (e.g., TAL metals) which were pre-preserved, a non-preserved laboratory clean bottle was used to collect the sample and it was transferred into the pre-preserved sample jar.

A total of six grab surface water samples including one duplicate, one MS and one MSD sample were analyzed by GCAL in Baton Rouge, Louisiana and TA in Denver, Colorado for the following parameters:

- VOCs by USEPA SW-846 Method 8260B
- SVOCs by USEPA SW-846 Method 8270C
- Perchlorate by USEPA Method 6860
- TPH (GRO, DRO, ORO) by USEPA SW-846 Method 8015B
- TAL Metals by USEPA SW-846 Method 6010B/7470A
- Nitrate by USEPA Method 353.2
- TDS by SM 2540C
- pH by SM 4500 H+B/SW-846 9040A
- Calcium by SM 2340B
- Magnesium by SM 2340B
- Hardness by SM 2340B

All surface water samples for TAL metals and perchlorate were field filtered using a peristaltic pump, disposable ¼-inch polyethylene tubing and a disposable 0.45 micron filter. The surface water samples which were submitted for chemical analysis are summarized in Table 5-2. Surface water samples were placed in the appropriate

containers, packed on ice at 4 ºC and delivered under chain-of custody to GCAL and TA laboratories.

5.2.3 Subsurface Soil Sampling and Analysis

The AOC-U RFI soil sampling approach was modified to collect subsurface soil samples at locations where nitrate and perchlorate were detected above their respective regulatory groundwater screening criteria (action levels) (NMED, 2011b). Twenty-one soil borings were advanced at locations where groundwater analytical results contained regulatory exceedences for nitrate and perchlorate (Figure 5-2). The soil borings were advanced using a 3.25 inch OD stainless steel AMS® Inc., hand auger sampling bucket (coring tool) equipped with 5 foot extensions and quick connect connections. These soil borings were sampled continuously to depths ranging between 1 and 10 ft bgs. One soil sample was collected from each borehole for chemical analysis. Soils were visually classified in the field by a geologist according to the Unified Soil Classification System. Soils were screened using a MiniRae® 2000 PID, with soil-headspace screening techniques to aid in selecting samples for laboratory chemical analysis. Due to the lack of elevated PID readings or visual discoloration indicative of contamination, soil samples from each of the 21 boreholes were collected from the capillary fringe interface.

A total of 28 subsurface soil samples including three duplicates, two MS and two MSD samples were analyzed by GCAL in Baton Rouge, Louisiana and TA in Denver, Colorado for the following parameters:

- VOCs by USEPA SW-846 Method 8260B
- SVOCs by USEPA SW-846 Method 8270C
- Perchlorate by USEPA Method 6860
- TPH (GRO, DRO, ORO) by USEPA SW-846 Method 8015B
- TAL Metals by USEPA SW-846 Method 6010B/7470A
- Nitrate by USEPA Method 353.2
- Moisture Content by SM 2540 G

Soil samples were placed in the appropriate containers, packed on ice at 4 ºC and delivered under chain-of custody to GCAL and TA Laboratories.

Two soil samples were also collected from soil borings AOCU-HA12 and AOCU-HA91 to provide site geotechnical data (Figure 5-2). Geotechnical soil samples were collected from the 1 to 2-ft bgs interval (above the water table), and analyzed for dry bulk density, specific gravity, moisture content (percent solids), and fractional organic carbon content. Geotechnical samples were shipped under chain-of-custody to Accutest Laboratories in Orlando, Florida. A summary of soil boring locations is provided in Table 5-1.

5.2.4 Surface Soil Sampling and Analysis

Two surface soil samples (AOCU-SA01 and AOCU-SA02) were collected at potential source areas identified while performing RFI sampling activities. Surface sample AOCU-SA01 was collected adjacent to a spent rocket booster which was located approximately 150 ft north of groundwater sample AOCU-GW26. Surface sample AOCU-SA02 was collected from an area where used rocket boosters were historically stored on wooden pallets outside of Building 1168, approximately 370 ft north of groundwater sample AOCU-GW22 (Figure 5-2). Surface soil samples were collected using a disposable PVC scoop from a depth of 0 to 1 ft bgs. Surface soil samples were placed in the appropriate containers, packed on ice at 4 ºC and delivered under chain-of custody to GCAL, where they were analyzed for nitrate (USEPA Method 353.2) and perchlorate (USEPA Method 6860).

5.2.5 Equipment Blank Sampling and Analysis

During the soil sampling phase of this RFI, an equipment blank water sample was collected daily from the decontaminated hand auger tool in order to ensure effectiveness of decontamination methods. Equipment rinsate blanks were not required for disposable sampling equipment such as the Teflon bailers used for grab groundwater sample collection or the PVC scoops used for surface soil sampling.

A total of three equipment blank water samples were analyzed by GCAL in Baton Rouge, Louisiana and TA in Denver, Colorado for the following parameters:

- VOCs by USEPA SW-846 Method 8260B
- SVOCs by USEPA SW-846 Method 8270C
- Perchlorate by USEPA Method 6860
- TPH (GRO, DRO, ORO) by USEPA SW-846 Method 8015B
- TAL Metals by USEPA SW-846 Method 6010B/7470A
- Nitrate by USEPA Method 353.2

5.3 Surveying

Upon completion, each hand augered borehole was backfilled. Each sample location was surveyed using a survey grade Trimble® Geometrics Pro XR global positioning system (GPS) in accordance with the methods described in the *Basewide Quality Assurance Project Plan* (Bhate, 2003). Horizontal locations (northing and easting coordinates) are relative to the World Geodetic System (WGS) 1984 Universal Transverse Mercator (UTM) Coordinate System, Zone 13 North (meters) and surveyed to an accuracy of +/- 1.0 meter. Survey data for the 50 groundwater, 21 subsurface soil, 1 grab groundwater (suspicious standpipe), 3 surface water, and 2 surface soil locations sampled during this investigation are included in Table 5-1.

5.4 Equipment Decontamination

All reusable hand auger equipment (rod extensions and coring tool) was decontaminated in accordance with HAFB-SOP-2 provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003).

5.5 Waste Handling

Investigation derived waste (IDW) was managed in accordance with HAFB SOP-9 of the *Basewide Quality Assurance Project Plan* (Bhate, 2003). IDW generated from advancing the soil borings and equipment decontamination was managed in accordance with Section 6.3.8 of the *Final RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman AFB, NM* (NationView, 2009).

5.6 Variances

On February 8, 2011, prior to initiating the AOC-U groundwater sampling event, variances for three analytical field changes were completed. The variances from the *Final RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman AFB, NM* (NationView, 2009) involve the following:

1. Subcontracting GCAL to perform the soil, groundwater, and surface water analyses.
2. Adding nitrate by USEPA Method 353.2 to the list of analytical parameters (soil, groundwater, and surface water).
3. Analyzing groundwater and surface water samples for perchlorate by USEPA Method 6860 (the perchlorate analyses were performed by TA in Denver, Colorado).

The variances for these analytical field changes are included in Attachment A of this report.

6 LABORATORY ANALYSIS AND DATA VALIDATION SUMMARY

6.1 Groundwater and Surface Water

With the exception of variances listed in Section 5.6 of this report and included as Attachment A, analysis of groundwater and surface water samples collected during this investigation followed the proposed methodologies presented in the *RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman Air Force Base, New Mexico* (NationView, 2009). All analytical procedures followed the USEPA SW-846 protocol with the groundwater samples being analyzed in various combinations for the following:

- VOCs by USEPA Method 8260B
- SVOCs by USEPA Method 8270C
- TPH (GRO, DRO, ORO) by USEPA Method 8015B
- TAL Metals by USEPA 6010B/7470A
- Nitrate by USEPA Method 353.2
- TDS by SM 2540C
- Perchlorate by USEPA Method 6860

All of the laboratory data generated as part of the RFI conducted at AOC-U was validated by the project chemist. Field Quality Assurance (QA)/Quality Control (QC) samples, including trip blanks, equipment blank, matrix spikes, and matrix spike duplicates were collected to document field and laboratory QA/QC. Analytical data is provided in Appendix C of this report and the Data Validation Reports are provided in Appendix D, respectively. Gulf Coast Analytical Laboratories in Baton Rouge, Louisiana performed the analysis of all samples collected with the exception of the perchlorate analysis which was analyzed by TestAmerica Laboratories in Denver, Colorado.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the validation reports (Appendix D) with the following sections providing a synopsis of each analyte group.

6.1.1 Volatile Organic Compounds

The laboratory control spike duplicate (LCSD) recoveries (associated samples AOCU-GW15, AOCU-GW17, AOCU-GW10, AOCU-GW12, AOCU-GW07 and AOCU-GW03) for trans-1,3-dichloropropene and 1-chlorohexane were below QC limits. These not

detected compounds were qualified as estimated, non-detected, “UJ”. The LCSD recovery (associated samples AOCU-GW05, AOCU-GW08, and AOCU-SW02) for 1-dichloropropene was below QC limits. This compound was qualified as estimated, non-detected, “UJ”.

6.1.2 Semi-Volatile Organic Compounds

No QC deficiencies warranted qualification of the SVOC data.

6.1.3 Total Petroleum Hydrocarbons

The relative percent difference (RPD) between the sample AOCU-GW35 and its field duplicate was outside project defined control limits for TPH-DRO and was qualified as estimated, “J”, in both samples.

6.1.4 TAL Metals

Method blank contamination was present in numerous samples with metals reported above the reporting limit. Where the sample concentration was less than 10 times the blank concentration, the metal was qualified as estimated, “J”.

The MS and/or MSD recoveries for thallium, mercury, and vanadium were outside control limits. Cross reference with the associated laboratory control sample (LCS) recoveries, which were in control, concluded no qualification was necessary, with the exception of vanadium which resulted in both LCS and matrix QC deficiencies and was qualified as estimated ,”J” (AOCU-SW03-A) and estimated non-detected, “UJ” (AOCU-GW01, AOCU-GW02, AOCU-GW03, AOCU-GW05, AOCU-GW07, AOCU-GW08, AOCU-GW10, AOCU-GW12, AOCU-GW15, AOCU-GW17, AOCU-SW01, AOCU-SW02, and AOCU-SW03).

The LCS recovery for chromium was slightly below QC limits in multiple samples. The associated samples with positive results (AOCU-GW84, AOCU-GW86, AOCU-GW89, AOCU-GW69, AOCU-GW69-A, AOCU-GW68, AOCU-GW71, AOCU-GW72, and AOCU-GW73) were qualified as estimated, “J”.

The LCS recoveries for magnesium and vanadium associated with samples AOCU-GW19, AOCU-GW20, AOCU-GW22, AOCU-GW15, AOCU-GW17, AOCU-GW10, AOCU-GW12, AOCU-GW05, AOCU-GW07, AOCU-GW03, AOCU-GW08, AOCU-GW01, AOCU-GW02, AOCU-SW03, AOCU-SW03-A, AOCU-SW02, and AOCU-SW01 were slightly below QC limits. The associated samples with positive results were qualified as estimated, “J”.

The RPD between the sample AOCU-GW69 and its field duplicate was outside project defined control limits for chromium and was qualified as estimated, “J”, in both samples.

Antimony was qualified as estimated, “J”, in both sample AOCU-GW47 and its duplicate due to exceeding project defined RPD limits.

The RPD between the sample AOCU-GW24 and its field duplicate was outside project defined control limits for arsenic and chromium and qualified as estimated, “J”, in both samples.

Chromium, copper, manganese, and nickel yielded RPDs outside project defined control limits for sample AOCU-SW03 and its field duplicate and were qualified as estimated, “J”, in both samples.

6.1.5 Nitrate

The analysis of nitrate was performed outside required hold time for samples AOCU-GW15, AOCU-GW17, AOCU-GW10, AOCU-GW12, AOCU-GW05, AOCU-GW07, AOCU-GW03, AOCU-GW08, AOCU-GW01 and AOCU-GW02. All results were qualified as estimated, “J”.

6.1.6 Total Dissolved Solids

No QC deficiencies warranted qualification of the TDS data.

6.1.7 Perchlorate

No QC deficiencies warranted qualification of the perchlorate data.

6.2 Subsurface and Surface Soil

The analysis of soil samples collected during this investigation followed the proposed methodologies presented in the *RCRA Facility Investigation Work Plan AOC-U, Lost River Basin, Holloman Air Force Base, New Mexico* (NationView, 2009). All analytical procedures followed the USEPA SW-846 protocol with the soil samples being analyzed in various combinations for the following:

- VOCs by USEPA Method 8260B
- SVOCs by USEPA Method 8270C
- TPH (GRO, DRO, ORO) by USEPA Method 8015B
- TAL Metals by USEPA 6010B/7471A
- Nitrate by USEPA Method 353.2
- Perchlorate by USEPA Method 6860

All of the laboratory data generated as part of this Work Plan conducted at AOC-U was validated by the project chemist. Field QA/QC samples, including trip blanks, equipment blank, matrix spikes, and matrix spike duplicates were collected to document

field and laboratory QA/QC. Analytical data is provided in Appendix C and the Data Validation Reports are provided in Appendix D, respectively. Gulf Coast Analytical Laboratories in Baton Rouge, Louisiana performed the analysis of all samples collected with the exception of the perchlorate analysis which was analyzed by DHL Analytical Inc. in Round Rock, Texas.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the validation reports (Appendix D) with the following sections providing a synopsis of each analyte group.

6.2.1 Volatile Organic Compounds

Various blanks yielded positive volatile results. Those detected compounds with reportable concentrations less than 5 times the blank concentration (10 times for common laboratory contaminants) were qualified as estimated, "J".

6.2.2 Semi-Volatile Organic Compounds

No QC deficiencies warranted qualification of the SVOC data.

6.2.3 Total Petroleum Hydrocarbons

No QC deficiencies warranted qualification of the TPH data.

6.2.4 TAL Metals

Multiple metals were detected in the equipment and method blanks. When the blank concentration was between the MDL and RL, those detected compounds that were less than the RL in the associated samples were qualified as estimated, "J". When the blank concentration was greater than the RL, those compounds that were less than 10 times the blank concentration were qualified as estimated, "J".

The RPD for the field duplicate (AOCU-HA22-2-A) and sample (AOCU-HA22-2) was outside project defined control limits for aluminum, barium, beryllium, chromium, cobalt, copper, iron, lead, nickel, potassium, vanadium, and zinc. These metals were qualified as estimated, "J", in both samples.

The RPD for sample AOCU-HA45-1.5 and its field duplicate AOCU-45-1.5-A was outside project defined control limits for manganese. This metal was qualified as estimated, "J", in both samples.

The RPD for lead, magnesium, and sodium was outside project defined control limits for sample AOCU-HA69-2 and its field duplicate AOCU-HA69-2-A. These metals were qualified as estimated, “J”, in both samples.

6.2.5 Nitrate

No QC deficiencies warranted qualification of the nitrate data.

6.2.6 Perchlorate

The RPD for the field duplicate (AOCU-HA69-2-A) and sample (AOCU-HA69-2) was outside project defined control limits for perchlorate and was qualified as estimated, “J”.

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7 NATURE AND EXTENT OF CONTAMINATION

This section presents the groundwater, surface water, and soil analytical results from the RFI field activities completed at AOC-U by NationView between February and July 2011. This section also presents the nature and extent of contamination found in groundwater, surface water, and soil during this investigation. Groundwater, surface water, subsurface soil, and surface soil sampling locations from this investigation are shown on Figures 5-1 and 5-2.

The objective of this RFI was to determine if adjacent ERP Sites had impacted the soil and water quality within the Lost River Basin watershed. The Lost River Basin is considered an environmentally sensitive area under agreement between HAFB, WSMR, the NPS, the USFWS, and the NMDGF to protect the Threatened White Sands pupfish. The ultimate objective is to obtain NFA status under Criterion #5 (Appendix 4-B, NMED, 2004a) and obtain a Class III permit modification to remove AOC-U from Table A of the HAFB Hazardous Waste Facility Permit No. NM6572124422.

The groundwater, surface water, subsurface soil (geochemical and geotechnical) and surface soil analytical results collected during this RFI are summarized in Tables 7-1 through 7-4. The complete laboratory analytical results for the RFI soil and groundwater sampling are included in Appendix C of this report.

7.1 Groundwater Analytical Results

Grab groundwater samples were collected from 50 hand augered soil borings located throughout the Lost River Basin (Figure 5-1). The AOC-U groundwater samples were analyzed for VOCs, SVOCs, TPH, TAL metals, nitrate, perchlorate, and TDS. Additionally, grab groundwater sample location AOCU-GW91 was re-sampled in July 2011 (AOCU-GW91-R) and analyzed for nitrate and perchlorate in order to confirm initial laboratory results from March 2011. A second grab groundwater sample (AOCU-SA03) was collected in July 2011 from a suspicious standpipe located adjacent to the Southern Vertical Launch Pad at Site OT-37 and analyzed for nitrate only. The analytical results for constituents detected above the MDL are presented in Table 7-1.

7.1.1 Volatile Organic Compounds

Low and estimated concentrations of six VOCs (acetone, benzene, bromomethane, chloromethane, naphthalene, and toluene) were detected above the MDL in 10 groundwater samples (Table 7-1). Bromomethane was the only VOC detected above the reporting detection limit (RDL) and was detected in one sample (AOCU-GW20) at a concentration of 5.38 µg/L. There is no established NMWQCC standard or USEPA MCL for bromomethane. Additionally, all other detected VOCs were below their respective USEPA MCL or NMWQCC standard (if applicable).

7.1.2 Semi-Volatile Organic Compounds

Estimated concentrations of six SVOCs were detected in five groundwater samples above the MDL (Table 7-1). The six detected SVOCs (benzyl alcohol, bis(2-ethylhexyl)phthalate, di-n-butyl phthalate, fluorene, phenanthrene, and pyrene) do not have applicable USEPA MCLs or NMWQCC standards for comparison.

7.1.3 Total Petroleum Hydrocarbons

Low and estimated concentrations of TPH-DRO (C_{10} – C_{22}) and/or ORO (C_{22} – C_{36}) were detected in 20 groundwater samples above the MDL (Table 7-1). Additionally, TPH-GRO (C_6 – C_{10}) was not detected in any of the AOC-U grab groundwater samples. Five samples (AOCU-GW03, -GW05, -GW07, -GW08 and –GW75) had concentrations of TPH-DRO and/or ORO above the RDL. The maximum concentrations of TPH-DRO (693 µg/L) and ORO (161 µg/L) were detected in samples AOCU-GW75 and -GW03 respectively. Furthermore, the maximum combined TPH-GRO, DRO and ORO concentration (791.2 µg/L or 0.791 mg/L) is well below the NMED TPH screening guideline for kerosene and jet fuel (18.5 mg/L).

7.1.4 TAL Metals

A total of fourteen (14) dissolved (filtered) TAL metals were detected in groundwater above the MDL. Four of these TAL metals (antimony, arsenic, chromium and manganese) were also detected above their respective USEPA MCLs, Secondary MCLs, NMWQCC groundwater standards, and/or NMED approved background levels (Table 7-1). In addition, there were four dissolved metals (cobalt, copper, nickel, and zinc) which were detected above their respective NMED approved background levels (NMED, 2011a) but below their applicable action levels.

The following subsections provide a summary of results for the four dissolved TAL metals which were detected above their applicable action levels and NMED approved background levels. Figures 7-1 through 7-3 present the distribution of dissolved TAL metals detected in groundwater which exceeded applicable USEPA MCLs and/or NMWQCC groundwater standards at AOC-U.

7.1.4.1 Antimony

Antimony was detected in 46 samples (42 locations) above the USEPA MCL and the NMED approved background level (0.006 mg/L) with concentrations ranging from 0.021B mg/L (AOCU-GW71) to 0.2B mg/L (AOCU-GW47). The antimony exceedences in 85% of groundwater samples collected most likely represent the natural variability of groundwater throughout AOC-U as the geographic distribution of detections is ubiquitous (Figures 7-1 though 7-3).

7.1.4.2 Arsenic

Arsenic was detected in 34 samples (31 locations) above the USEPA MCL and the NMED approved background level (0.01 mg/L) with concentrations ranging from 0.02B mg/L (AOCU-GW69 and -GW82) to 0.13B mg/L (AOCU-GW08). However, arsenic was only detected in two samples (AOCU-GW08 [0.13B mg/L] and –GW35 [0.1B mg/L]) at or above the NMWQCC groundwater standard for arsenic (0.1 mg/L). However, there are eight detections of arsenic above the USEPA MCL and NMED approved background level, which are below the HAFB Basewide Background (dissolved metals in groundwater) UTL (NationView|Bhate JV III, 2011) for arsenic (0.2853 mg/L). The arsenic exceedences in 63% of groundwater samples collected most likely represent the natural variability of groundwater throughout AOC-U as the geographic distribution of detections is ubiquitous (Figures 7-1 though 7-3).

7.1.4.3 Chromium

Chromium was detected in 16 samples (14 locations) above the NMWQCC groundwater standard (0.05 mg/L) with concentrations ranging from 0.055B mg/L (AOCU-GW17) to 0.083B mg/L (AOCU-GW47-A), however all of these chromium detections were below the USEPA MCL (0.1 mg/L). Additionally, there were 36 detections of chromium above the NMED approved background level (0.0025 mg/L) and the HAFB Basewide Background (dissolved metals in groundwater) UTL for chromium (0.0025 mg/L) (NationView|Bhate JV III, 2011). These chromium exceedences most likely represent the natural variability in groundwater (Figures 7-1 through 7-3).

7.1.4.4 Manganese

Manganese was detected in 45 samples (40 locations) above the USEPA Secondary MCL and NMED approved background level (0.05 mg/L) with concentrations ranging from 0.054B mg/L (AOCU-GW80) to 8.38 mg/L (AOCU-GW54). Forty-three samples had detections of manganese above the NMWQCC groundwater standard (0.2 mg/L) and the HAFB Basewide Background (dissolved metals in groundwater) UTL (NationView|Bhate JV III, 2011) for manganese (0.11865 mg/L). The manganese exceedences in 83% of groundwater samples collected most likely represent the natural variability of groundwater throughout AOC-U as the geographic distribution of detections is ubiquitous (Figures 7-1 though 7-3). Additionally, the most upgradient sample (AOCU-GW100) had a detection of manganese (0.28 mg/L) above the USEPA MCL, NMED approved background level, NMWQCC standard, and HAFB Background UTL. Therefore, these manganese detections are likely geogenic in nature (Figures 7-1 through 7-3).

7.1.4.5 Other Metals

There were scattered detections of four metals (cobalt, copper, nickel, and zinc) which had concentrations above the NMED approved background levels but below their respective regulatory screening criteria. Additionally there were detections of five

metals above the NMED approved background level for which USEPA MCLs and NMWQCC groundwater standards have not been established (calcium, magnesium, potassium, sodium, and vanadium). These detections are summarized in Table 7-1. Figures 7-1 through 7-3 present the distribution of TAL metals detected in groundwater which exceeded applicable USEPA MCLs and/or NMWQCC groundwater standards within the western, central, and eastern sections of the Lost River Basin.

7.1.5 Nitrate, Perchlorate, and Total Dissolved Solids

7.1.5.1 Nitrate

Nitrate was detected in all but one of the 57 AOC-U groundwater samples (51 locations) above the MDL (Table 7-1). The one location in which nitrate was not detected above the MDL was in grab sample AOCU-SA03, collected from a suspicious standpipe located adjacent to the Southern Vertical Launch Pad at Site OT-37. Nitrate concentrations exceeded the USEPA MCL and the NMWQCC groundwater standard (10 mg/L) in 25 samples (21 locations) with concentrations ranging from 13.5 mg/L (AOCU-GW84) to 605 mg/L (AOCU-GW91). It should be noted that upon re-sampling of groundwater location AOCU-GW91 in July 2011 (AOCU-GW91-R), the nitrate concentration decreased from 605 mg/L to 7.92 mg/L. This decrease is attributed to a field collection error during initial sample collection in which a bottle preserved with nitric acid was mistakenly used. Therefore, the initial nitrate exceedence observed at location AOCU-GW91 is considered a false positive and not truly representative of nitrate concentration in groundwater. Due to this false positive at AOCU-GW91, the highest *representative* nitrate concentration in groundwater (500 mg/L) was observed at sample location AOCU-GW20 (down-gradient of SS-39).

In general, the nitrate detections above the regulatory screening criteria were in the vicinity of ERP Sites where historical rocket testing or maintenance occurred. In addition, nitrate was also detected in groundwater samples which were collected upgradient of all ERP Sites. Specifically, nitrate was detected in AOCU-GW80 (5.74 mg/L) and AOCU-GW100 (2.63 mg/L) which are located within the upgradient tributaries of the Lost River within Malone Draw and Ritas Draw respectively. Figures 7-4 and 7-5 present the distribution of nitrate detected in groundwater which exceeded the USEPA MCLs and NMWQCC groundwater standards within the western/central and eastern portions of the Lost River Basin, respectively.

The widespread nature of nitrate exceedences could be attributable to voluminous vapor clouds containing by-products of solid rocket propellants produced during repeated launch exercises which were dispersed by the prevailing winds to areas surrounding launch facilities. These thick vapor clouds dispersed locally by wind along with inevitable miss-fires, in which rockets did not follow their intended path, and subsequently were not recovered, could justify such a broad distribution of nitrate exceedences within AOC-U.

7.1.5.2 Perchlorate

Perchlorate was detected in 45 samples (39 locations) above the MDL. Perchlorate was detected above the USEPA Interim Drinking Water Health Advisory (15 µg/L) (USEPA, 2008) in 9 samples (7 locations) with concentrations ranging from 15 µg/L (AOCU-GW71) to 140 µg/L (AOCU-GW24 and AOCU–GW24-A). The perchlorate detections above the Interim Drinking Water Health Advisory standard were located downgradient of ERP Sites SS-39, OT-37, DP-62, and OT-04. Additionally, low levels of perchlorate (e.g., AOCU-GW82 [1.0 µg/L]) were detected in upgradient groundwater samples collected in Malone Draw (upgradient tributary of the Lost River. Figures 7-4 and 7-5 present the distribution of perchlorate detected in groundwater which exceeded the Interim Drinking Water Health Advisory within the western/central and eastern portions of the Lost River Basin, respectively.

The widespread nature of perchlorate exceedences could be attributable to voluminous vapor clouds containing by-products of solid rocket propellants produced during repeated launch exercises which were dispersed by the prevailing winds to areas surrounding launch facilities. These thick vapor clouds dispersed locally by wind along with inevitable misfires, in which rockets did not follow their intended path, and subsequently were not recovered, could justify such a broad distribution of perchorate exceedences within AOC-U.

7.1.5.3 Total Dissolved Solids

TDS concentrations for all AOC-U groundwater samples ranged from 21,000 mg/L (AOCU-GW100) to 243,000 mg/L (AOCU-GW07) and exceeded the NMWQCC standard of 1,000 mg/L and the USEPA Secondary Drinking Water Standard (500 mg/L). Additionally, there were 37 samples (34 locations) which had TDS concentrations above the HAFB Total Groundwater UTL of 65,956.58 mg/L (NationView|Bhate JV III, 2011) (Table 7-1). The average TDS concentration for the 55 groundwater samples analyzed for TDS during this sampling event was 109,798 mg/L which exceeds the NMWQCC groundwater standard for potable water (10,000 mg/L) by 11 fold.

The TDS analysis measures the amount of dissolved minerals in water. TDS is primarily comprised of inorganic salts where the principal constituents are common cations (calcium, magnesium, sodium, potassium, and iron) and anions (carbonate, chloride, sulfate, and nitrate) which are found in high concentrations throughout the Tularosa Basin (McLean, 1970). Groundwater with average TDS concentrations greater than 35,000 mg/L is characterized as seawater according to the U.S. Bureau of Reclamation (USBOR) (USBOR, 2003).

Furthermore, USEPA guidelines (USEPA, 1986) have identified groundwater exceeding 10,000 mg/L as a Class IIIB water resource. Therefore, due to the high average TDS (109,798) in the AOC-U groundwater, it is not a potential source of drinking water or of any beneficial human use. As a result of this classification the human ingestion of

groundwater located beneath the Lost River Basin is considered an incomplete pathway. Figures 7-1 through 7-3 present the spatial distribution of TDS detected in the groundwater within the western, central, and eastern sections of the Lost River Basin. As shown on Figure 7-3 the lowest TDS concentrations were detected in the upgradient tributaries of the Lost River within Malone Draw (e.g., AOCU-GW82 [21,200 mg/L]) and Ritas Draw (e.g., AOCU-GW100 [21,000 mg/L]). Conversely, the highest concentrations of TDS were detected within the distal end of the Lost River within the Lost River Basin (Figure 7-1). The maximum concentrations of TDS were located adjacent to the Causeway (e.g., AOCU-GW07 [243,000 mg/L]). This trend clearly illustrates that TDS concentrations significantly increase as the Lost River flows from Malone and Ritas Draws downgradient (east to west) into the Lost River Basin.

7.2 Surface Water Analytical Results

Three grab surface water samples were collected from three reaches of the Lost River, where water was encountered on March 6, 2011 (Figure 5-2). The AOC-U surface water samples were analyzed for VOCs, SVOCs, TPH, TAL metals, nitrate, perchlorate, TDS, pH, and hardness (which includes calcium and magnesium). The analytical results for constituents detected above the MDL are presented on Table 7-2.

7.2.1 Organic Compounds

One VOC (acetone) was detected above the MDL (Table 7-2). A low estimated concentration of acetone (5.38J µg/L) was detected in surface water sample AOCU-SW02; additionally there are no applicable surface water screening levels for acetone. No other VOCs were detected during this sampling event. SVOC compounds were not detected in any of the AOC-U grab surface water samples collected during the 2011 RFI surface water sampling event (Table 7-2).

7.2.2 Total Petroleum Hydrocarbons

Low and estimated concentrations of TPH-DRO (C_{10} – C_{22}) and/or ORO (C_{22} – C_{36}) were detected in three surface water samples above the MDL (Table7-2). Additionally, TPH-GRO (C_6 – C_{10}) was not detected in any of the AOC-U grab surface water samples. Three samples (AOCU-SW01, -SW02, and –SW03-A) had concentrations of TPH-DRO and/or ORO above the MDL. The maximum concentrations of TPH-DRO (680 µg/L) and ORO (1,150 µg/L) were detected in sample AOCU-SW02. Furthermore, there is no applicable TPH surface water screening guideline (NMWQCC or USEPA). However, the maximum combined TPH-GRO, -DRO ,and -ORO concentration (1,830 µg/L or 1.83 mg/L) which was detected in sample AOCU-SW02 is well below the NMED TPH groundwater screening guideline for kerosene and jet fuel (15 mg/L).

7.2.3 TAL Metals

A total of 11 TAL metals were detected in surface water above the MDL. Two of these TAL metals (antimony and manganese) were also detected above their respective USEPA (USEPA, 2009) and/or NMWQCC (NMAC 20.6.4.900) surface water quality standards (Table 7-2). Antimony was detected in four samples (three locations) above the USEPA and the NMWQCC surface water standards for antimony (0.0056 mg/L) with concentrations ranging from 0.027B mg/L (AOCU-SW02) to 0.033B mg/L (AOCU-SW03-A). Manganese was detected in 2 samples (2 locations) above the USEPA surface water standard (0.05 mg/L) with concentrations of 0.08 mg/L (AOCU-SW03) and 0.16 mg/L (AOCU-SW02). Figure 7-6 presents the distribution of TAL metals detected in surface water which exceeded the applicable USEPA and/or NMWQCC surface water quality standards at the three sample locations in the Lost River Basin.

Additionally, the most upgradient surface water samples within AOC-U (SW03 and – SW03-A [duplicate]) had detections of antimony (0.033B mg/L) and manganese (0.08 mg/L) above the USEPA and NMWQCC surface water quality standards. As illustrated on Figure 7-6, this sampling location is approximately 830 ft upgradient of the nearest ERP Site (OT-04). Therefore, these detections of antimony and manganese most likely represent the natural variability in surface water geochemistry and appear to be geogenic in nature.

7.2.4 Nitrate and Perchlorate

Nitrate was detected in each of the 4 AOC-U surface water samples (three locations) above the MDL (Table 7-2) with concentrations ranging from 0.628 mg/L (AOCU-SW02 to 6.59 mg/L (AOCU-SW01 [downgradient location]). Each of these nitrate detections was below the USEPA and the NMWQCC surface water standard (10 mg/L). The maximum concentration of nitrate (6.59 mg/L) was detected in surface water sample AOCU-SW01 which was collected at the mouth of the Lost River Basin, downgradient from ERP Site OT-37 (Figure 7-6).

Perchlorate was also detected in the four surface water samples (three locations) above the MDL (Table 7-2) with concentrations ranging from 0.29 µg/L (AOCU-SW03-A [upgradient location]) to 10 µg/L (AOCU-SW01 [downgradient location]). Each of these perchlorate detections was below the USEPA Interim Drinking Water Health Advisory of 15 µg/L (USEPA, 2008). The maximum concentration of perchlorate (10 µg/L) was also detected in surface water sample AOCU-SW01 which was collected at the mouth of the Lost River Basin, downgradient from ERP Site OT-37 (Figure 7-6).

7.2.5 Water Quality Parameters

The water quality parameters analyzed from the surface water samples collected during the AOC-U RFI included TDS, pH, and hardness (including calcium and magnesium analyses).

7.2.5.1 Total Dissolved Solids and pH

The TDS analysis measures the amount of dissolved minerals in water. TDS is primarily comprised of inorganic salts where the principal constituents are common cations (calcium, magnesium, sodium, potassium, and iron) and anions (carbonate, chloride, sulfate, and nitrate) which are found in high concentrations throughout the Tularosa Basin (McLean, 1970).

TDS concentrations ranged from 20,400 mg/L (AOCU-SW03 [upgradient location]) to 57,600 mg/L (AOCU-SW02) and exceeded the USEPA surface water standard of 250 mg/L (Table 7-2) in each sample. The average TDS concentration for the three surface water samples (excluding the duplicate) collected during this event was 42,667 mg/L which also exceeds the USEPA surface water standard. Additionally, there are no applicable NMWQCC surface water standards for TDS in surface water. Saline water with a concentration of 35,000 mg/L or greater is characterized as seawater (USBOR, 2003). Measurements of pH ranged from 7.66 (AOCU-SW03) to 8.3 (AOCU-SW02) (Table 7-2) and were within the USEPA limits established for fresh water (5 to 9). Figure 7-6 presents the distribution of TDS detected in the four Lost River surface water samples.

7.2.5.2 Hardness

AOC-U surface water samples were sampled for hardness (including calcium and magnesium) by USEPA SM 2340B. Hardness concentrations ranged from 8,030 mg/L (AOCU-SW03 [upgradient location]) to 15,100 mg/L (AOCU-SW01 [downgradient location]). The average hardness concentration for the surface water samples collected during this event (excluding the duplicate sample) was 12,477 mg/L. Additionally, the detected ranges of concentrations for calcium and magnesium were 829 mg/L to 1,150 mg/L and 1,420 mg/L to 2,980 mg/L, respectively. There are no standards for water hardness, calcium, or magnesium. However, water hardness above 180 mg/L is classified as very hard by the U.S. Department Interior (U.S. Geological Survey [USGS], 2009).

7.3 Soil Analytical Results

In July 2011, 24 subsurface soil samples (including 3 duplicates) were collected from 21 hand augered soil borings located throughout the Lost River Basin (Figure 5-1). The AOC-U subsurface soil samples were analyzed for VOCs, SVOCs, TPH, TAL metals, nitrate, and perchlorate. In addition, two surface soil samples were collected from potential source areas identified while performing RFI sampling activities (Figure 5-1). Surface soil samples were analyzed for nitrate and perchlorate only. The analytical results for constituents detected above the MDL are presented on Table 7-3. Additionally, subsurface soil samples that were collected from boreholes at AOCU-HA12 and AOCU-HA91 were analyzed for bulk density, fractional organic carbon,

moisture content, and specific gravity to establish geotechnical information for AOC-U. The geotechnical analytical results are presented in Table 7-4.

7.3.1 Subsurface Soil

Subsurface soil sampling locations were selected based on the analytical results from the February/March 2011 groundwater sampling event. Groundwater sample locations which contained exceedences of one or more analytes (excluding TDS) were subsequently selected for confirmation subsurface soil sampling.

7.3.1.1 Volatile Organic Compounds

A total of nine VOCs were detected above the MDL in the 24 subsurface soil samples collected. One or more VOCs were detected at low or estimated concentrations above the MDL in each of the 21 boreholes (Table 7-3). However, all detected VOCs were at least three orders of magnitude below their applicable NMED residential SSLs (NMED, 2012a) or USEPA RSLs (USEPA, 2012). Based on the soil analytical data, a VOC soil source area was not identified within AOC-U.

7.3.1.2 Semi-Volatile Organic Compounds

A total of two SVOCs were detected above the MDL in the 24 subsurface soil samples collected. One SVOC was detected at low, estimated concentrations above the MDL within 3 of the 21 boreholes (Table 7-3). However, all detected SVOCs were at least one-and-a-half orders of magnitude below their applicable NMED SSLs (NMED, 2012a). Based on the soil analytical data, a SVOC soil source area was not identified within AOC-U.

7.3.1.3 Total Petroleum Hydrocarbons

Low, estimated concentrations of TPH fractions GRO (C_6 – C_{10}), DRO (C_{10} – C_{22}), and/or ORO (C_{22} – C_{36}) were detected above the MDL in 10 samples collected from 9 of the 21 boreholes (Table 7-3). The maximum concentration of combined TPH-GRO, -DRO, and -ORO (7.53J mg/kg) was detected in soil sample AOCU-HA45-1.5. This combined concentration is more than two orders of magnitude below the NMED TPH Screening Guideline for Kerosene and Jet fuel of 1,000 mg/kg (NMED, 2012a). Based on the data, a TPH soil source area was not identified within AOC-U.

7.3.1.4 TAL Metals

Each of the 23 TAL metals were detected above the MDL in the subsurface soil samples collected during this sampling event. As shown in Table 7-3 with the exception of arsenic (one sample) and thallium (one sample), all detected TAL metals were below their respective NMED residential SSLs (NMED, 2012a) or USEPA RSLs (USEPA, 2012). The singular isolated exceedence of arsenic (5.06 mg/kg) was detected slightly above the SSL (3.9 mg/kg) and the NMED approved background level (3.7 mg/kg) in

soil sample AOCU-HA28-2 (Figure 7-7). The singular isolated exceedence of thallium (1.12B mg/kg) was detected above the NMED residential SSL (0.782 mg/kg) but below the NMED approved background level (1.3 mg/kg) in soil sample AOCU-HA26-1.5 (Figure 7-7).

There were detections of eight TAL metals above the NMED approved background level which had concentrations below their respective NMED SSLs and USEPA RSLs (aluminum, beryllium, cadmium, cobalt, copper, lead, nickel, and zinc). Additionally there were detections of two metals above the NMED approved background level for which NMED SSLs and USEPA RSLs have not been established (sodium and magnesium). Detections of TAL metals in subsurface soil are summarized in Table 7-3. Figure 7-7 presents the distribution of TAL metals detected in subsurface soil which exceeded applicable NMED SSLs or USEPA RSLs within the western, central, and eastern sections of the Lost River Basin.

7.3.1.5 Nitrate and Pechlorate

Nitrate was detected above the MDL in 20 of the 24 subsurface soil samples with concentrations ranging from 1.63 mg/kg (AOCU-HA91-2) to 43.2 mg/kg (AOCU-HA24-1) (Table 7-3). Additionally, low and estimated concentrations of perchlorate were detected above the MDL in 9 of the 24 subsurface soil samples with concentrations ranging from 0.00587J mg/kg (AOCU-HA56-1) to 0.0482 mg/kg (AOCU-HA24-1). However, all nitrate and perchlorate detections were well below their current NMED residential SSLs (125,000 mg/kg and 54.8 mg/kg, respectively) (NMED, 2012a).

7.3.2 Surface Soil

Surface soil samples were collected at potential source areas identified while performing RFI sampling activities. Surface sample AOCU-SA01 was collected adjacent to a spent rocket booster which was located approximately 150 ft north of groundwater sample AOCU-GW26 *(Note: groundwater sample AOCU-GW26 contained both nitrate and perchlorate exceedences)*. Surface sample AOCU-SA02 was collected from an area where used rocket boosters were historically stored on wooden pallets outside of Building 1168, approximately 370 ft north of groundwater sample AOCU-GW22 *(Note: groundwater sample AOCU-GW22 contained both nitrate and perchlorate exceedences).* Surface soil sampling locations are illustrated on Figure 5-2 and results are summarized in Table 7-3.

7.3.2.1 Nitrate

Nitrate was detected above the MDL in both of the surface soil samples with concentrations of 223 mg/kg-N (AOCU-SA01) and 477 mg/kg-N (AOCU-SA02), each significantly below the NMED residential SSL of 125,000 mg/kg (NMED, 2012a). Although not an exceedence, it should be noted that nitrate in the surface soil samples ranged from greater than 5 times to greater than 10 times the highest nitrate concentration observed in the subsurface soil samples.

7.3.2.2 Perchlorate

Perchlorate was detected above the MDL in both of the surface soil samples with concentrations of 0.0656 mg/kg (AOCU-SA01) and 42.3 mg/kg (AOCU-SA02), each below the NMED residential SSL (54.8 mg/kg) (NMED, 2012a). The sample location of AOCU-SA02 was located near an area where used rocket boosters were historically stored on wooden pallets outside of Building 1168. Although the perchlorate concentration observed in sample AOCU-SA02 does not exceed the NMED SSL, it is clearly elevated (greater than 2.9 orders of magnitude above [or 9,800 times] the highest perchlorate concentration observed in subsurface soil), and likely indicates a nearby source area.

Figure 7-8 is a 2002 aerial photograph which illustrates the proximity of surface soil sample AOCU-SA02 to a historical storage area for used rocket boosters located adjacent to Building 1168. Additionally, the groundwater sample locations shown (AOCU-GW20, -GW22, and –GW24) contained the highest nitrate, second highest perchorate, and highest perchlorate concentrations, respectively. Figure 7-8 also shows an approximate location of SWMU 165 (Building 1176 Pond), which is part of Site SS-39. SWMU 165 was identified and photographed between Building 1176 and the Lost River Basin (A.T. Kearney, 1988) however the pond's exact location has subsequently never been determined.

7.3.3 Geotechnical Soil Samples

Two geotechnical samples collected from boreholes AOCU-HA12 and AOCU-HA91 were analyzed for bulk density, fractional organic carbon, percent solids, and specific gravity. The geotechnical analytical results are presented in Table 7-4 and the complete results from Accutest Laboratories are included in Appendix C of this report.

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8 PERCHLORATE AND ECOLOGICAL RISK

8.1 Toxicological Affects on Wildlife

The following discussion presents a detailed analysis of the toxicological affects of perchlorate on wildlife. This information was obtained from *Preliminary Review of Perchlorate Ecotox Data* (Korte, 2011), which is presented below unless cited otherwise.

There has been extensive work with perchlorate and its effects on wildlife species. The overall circumstances are summarized well by this quote from Salice et al. (Salice et al., 2007):

> *"The toxicological database for perchlorate is extensive, and includes chronic as well as reproductive and developmental data. More than three species of two orders are represented, as well as chronic No Observable Adverse Effect Level (NOAEL) and Lowest Observed Adverse Effect Level (LOAEL) values. Interpretation of these data in an ecological context is challenging; few adverse effects have been identified, yet the database is comprehensive.*
>
> *There is a general lack of adverse effects. Changes in thyroid structure and function (systemic hormone levels) have been found; however, the relevance of these endpoints to wildlife at the individual or populational level of organization is questionable. Moreover, although changes in thyroid hormone levels and histology are consistent findings as a result of exposure, functional differences from these observations have not been observed. No changes in reproduction as a result of exposure have been observed, yet levels of thyroid hormone levels may be decreased along with proportionate thyroid colloid depletion. Mortality is particularly relevant, but occurs only at relatively high exposures."*

In other words, a large amount of data regarding pechlorate toxicity exists. Most of the data shows no deleterious effects except at exposures high enough to cause mortality. Nonetheless, morphological and hormonal changes are observed at sub-lethal levels, but ill-effects (growth, reproduction, etc.) were typically not identified. Because of the latter fact, the published reports contain many caveats indicating the authors fear that they either ran experiments that were too brief or did not examine all possible negative effects.

8.2 Relevance to Lost River Basin (AOC-U) Eco-Risk

The importance for eco-risk and the Lost River Basin is three-fold:

1) Sub-lethal effects were not found, indicating low-level exposures are relatively safe.
2) Authors provided NOAEL projected concentrations higher than what was found in surface water in the Lost River Basin.
3) Data indicate fish; in particular, have a high tolerance for perchlorate.

The following table provides NOAEL and LOAELs for amphibians (Salice et al., 2007).

Selected Water Toxicity Reference Values (TRVs) for the Class Amphibia

TRV Dose	mg/L	Confidence
NOAEL-based	0.023	Low
LOAEL-based	0.06	Low

It should be noted that the highest surface water value for the recent sampling in the Lost River Basin was 10 µg/L (0.01 mg/L) - nearly 2 ½ times less than the NOAEL. Unfortunately, the authors state that their confidence in the result is "low."

Some other relevant research findings include:

1. "At 18 mg/L, spawn volume for zebrafish was unaffected even after eight weeks. Also, perchlorate at 18 mg/L did not affect percentage egg fertilization." (Patiño et al., 2003).
2. "Bacterial production…was not adversely affected by the presence of perchlorate except at very high levels…Respiration in marine and freshwater sediments and wetland peat was not adversely affected by perchlorate concentrations as high as 1,000 mg/L…. The presence of potassium perchlorate at concentrations up to 10 mg/L and perchlorate concentrations nearing 30 mg/L in aquaria containing solid propellant had no effect on stickleback mating or the birth and growth of fry." (Hines et al., 2002). (Note, some of this work is with seawater which might be deemed irrelevant. However, salt concentrations are naturally very high in the Lost River Basin.)
3. "Results currently available indicate that exposure to waterborne perchlorate at environmentally relevant concentrations under the described conditions produced no serious effects on the reproductive system function in goldfish." In fact these authors saw zero ill-effects below 1,200 µg/L (Crouch and Snyder, 2011).
4. Two studies (Rainwater et al., 2007 and Chen et al., 2008) examined effects on birds. Exposure was not waterborne but ingestion was much greater than would be possible from drinking contaminated surface water from the Lost River Basin. Few effects were noted although the authors suggested their studies may have been too short.

A strong case can be made that 10 µg/L in surface water is not environmentally-relevant with respect to wildlife exposures. Fish, in particular, have been well-studied and appear to have a relatively high tolerance for perchlorate.

Regulator review of a justification that 10 µg/L is not environmentally relevant probably cannot be refuted based on the technical literature reviewed. Such a justification might be refuted based on (1) the many caveats provided by the report authors (studies too short, not selecting the correct effects to monitor), (2) the lack of any data for reptiles,

and (3) the lack of a reported LOAEL for birds. However, to refute the justification for these reasons would have to include insistence on new laboratory and field studies, that is, acquisition of additional exposure data. Additionally, the most conservative ecological screening level (ESL) established for perchlorate within the Los Alamos National Laboratory (LANL) Ecorisk Database indicates a no effect ESL in water at 35,000 µg/L and a low effect ESL in water at 120,000 µg/L for the Montane shrew (LANL, 2012).

Finally, the performance of a “full-blown” risk assessment would have to rely on these same data. It is doubtful, therefore, that deleterious effects could be projected no matter what user-scenario was used.

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9 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations focus on data gathered during the Lost River Basin (AOC-U) RFI sampling events conducted in February/March and July, 2011. These sampling events included mixed media sampling encompassing subsurface soil, surface soil, groundwater, and surface water matrices.

9.1 Conclusions

Concentrations of four TAL metals were identified in groundwater above their applicable regulatory criteria during the AOC-U RFI sampling events (February/March and July, 2011). Due to the ubiquitous geographic distribution of the metals exceedences they most likely represent natural variability of groundwater throughout the Lost River Basin. Concentrations of nitrate and/or perchlorate were detected above their applicable regulatory action level screening criteria in 25 groundwater samples (20 locations) out of 57 groundwater samples (51 locations) collected during the AOC-U RFI sampling events. Nitrate and perchlorate detections observed above applicable action levels were generally located in the vicinity of ERP Sites where historical rocket testing or maintenance occurred (Figures 7-4 and 7-5).

Although one likely point source of nitrate and perchlorate was identified outside of Building 1168 (Figure 7-8), it cannot be accountable for the general occurrence of these compounds throughout AOC-U. The widespread nature of nitrate and perchlorate exceedences could be attributed to voluminous vapor clouds containing by-products of solid rocket propellants produced during repeated launch exercises which were dispersed by the prevailing winds to areas surrounding the launch facilities. These thick vapor clouds dispersed locally by wind along with inevitable misfires, in which rockets did not follow their intended path, and subsequently were not recovered, could justify such a broad distribution of nitrate and perchlorate exceedences within AOC-U. Due to the extensive area covered by sample locations during this RFI, all exceedences of nitrate and/or perchlorate were ultimately bounded by downgradient control points. Furthermore, the average AOC-U TDS concentration (109,798 mg/L) exceeds the NMWQCC groundwater standard for potable water (10,000 mg/L) by 11-fold and is classified by the USEPA as a Class IIIB aquifer which is designated as unfit for human consumption (USEPA, 1986). Therefore AOC-U groundwater is not a potential source of drinking water or of any beneficial human use and human ingestion of groundwater at this site is considered an incomplete pathway.

The Lost River Basin is considered an environmentally sensitive area under agreement between HAFB, WSMR, the NPS, the USFWS, and the NMDGF to protect the Threatened White Sands pupfish. Per this interagency agreement, the Lost River Basin has been designated as Essential Fish Habitat and is therefore protected from both development and recreational use. That being said, a viable exposure pathway to humans does not exist within the Lost River Basin. The only feasible exposure pathway for wildlife to COPCs present within AOC-U is through surface water. As discussed in

the previous section, the level of perchlorate present in the surface water of AOC-U (maximum detection of 10 µg/L) is not environmentally-relevant with respect to wildlife exposures.

9.2 Recommendations

HAFB will submit a Statement of Basis requesting No Further Action for AOC-U based upon Criterion #5 listed in Appendix 4-B of the HAFB Hazardous Waste Permit No. NM6572124422 (NMED, 2004a) which states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

This criterion was accomplished by conducting subsurface soil, surface soil, groundwater, and surface water characterization activities within AOC-U. The RCRA Facility Investigation determined that risk to human health or ecological receptors within AOC-U do not exist.

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TABLES

Table 3-1
Groundwater Wells
Located Within a 4-Mile Radius
of Holloman Air Force Base
AOC-U, Lost River Basin RFI Report
Holloman AFB, New Mexico

Well ID Number	Use	NAD 83 UTM Zone 13 North (meters)		Well Depth (ft)
		X	Y	
T 00078	Commercial	398468	3648755	428
T 00868	Domestic	400972	3650377	215
T 03794	Irrigation	403280	3651057	250
T 04855	Domestic	403784	3651965	235
T 04967	Domestic	403480	3652067	200
T 00518	Domestic	405819	3646323	305
T 00518 S	Domestic	405819	3646323	220
T 00614	Domestic	404503	3646838	245
T 00995	Domestic	405824	3646730	308
T 01868	Domestic	405824	3646730	280
T 02650	Domestic	405619	3646523	265
T 03230	Domestic	403699	3647252	160
T 04728	Domestic	404503	3646838	216
T 05079 POD1	Domestic	401365	3646757	406
T 01167	Livestock	404993	3644302	170
T 01235	Irrigation	404995	3644706	200
T 03062	Commercial	403678	3644412	295
T 03455	Domestic	403365	3644318	150
T 03483	Domestic	402565	3644318	140
T 03934	Commercial	403578	3644915	160
T 05201 POD1	Irrigation	403380	3644374	295
T 05202 POD1	Irrigation	403381	3644374	250
T 00146	Livestock	402960	3642700	110
T 03245	Commercial	406609	3643887	190
T 04228	Domestic	405295	3643589	180
T 04386 S-6	Commercial	404903	3640666	290
T 04386 S-9	Commercial	404895	3640673	320
T 00172 S	Irrigation	406088	3640755	125
T 00776	Irrigation	406391	3640650	120
T 00782	Domestic	406187	3640854	120
T 00818	Irrigation	406391	3640650	125
T 02431	Domestic	405987	3640654	152
T 03909	Livestock	404765	3639453	140
T 04386 S	Commercial	404886	3638830	290
T 04386 S-2	Commercial	404888	3638830	310
T 04386 S-3	Commercial	404886	3638837	300
T 04386 S-4	Commercial	404886	3638841	295
T 04386 S-5	Commercial	404903	3640661	310
T 03147	Domestic	406380	3638633	135
T 04080	Domestic	406481	3638734	170
T 03228	Domestic	404290	3637226	160
T 00347	Domestic	403131	3634704	182
T 00972	Domestic	404882	3636009	150
T 01602	Domestic	406510	3635592	135
T 05041 POD1	Domestic	406205	3635697	200
T 01012	Commercial	401072	3634316	72
T 01277	Commercial	404434	3633172	104
T 01327	Commercial	400958	3633604	90
T 01526	Commercial	401368	3633601	152
T 01623	Domestic	400743	3633202	260

Source: New Mexico Water Rights Reporting System database, 2009
Notes:
NAD - North American Datum
UTM - Universal Transverse Mercator

Table 5-1
Survey Data and Depth to Groundwater Summary (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Sample Location	Sample Matrix	Upgradient ERP Site	Northing (UTM Zone 13 N [m])	Easting (UTM Zone 13 N [m])	Date	Total Borehole Depth (ft)	Approximate DTW (ft) from Ground Surface
AOCU-GW01	Groundwater	NA	3638636	390868	5-Mar-11	5.0	1.5
AOCU-GW02	Groundwater	NA	3638700	391194	5-Mar-11	6.0	1.0
AOCU-GW03	Groundwater	NA	3638889	391518	5-Mar-11	8.0	2.0
AOCU-GW05	Groundwater	NA	3638622	391480	5-Mar-11	7.5	3.5
AOCU-GW07	Groundwater	NA	3638771	391796	5-Mar-11	11.0	8.0
AOCU-GW08	Groundwater	NA	3638659	391786	5-Mar-11	13.0	2.0
AOCU-GW10	Groundwater	NA	3638445	391850	4-Mar-11	6.0	2.0
AOCU-GW12	Groundwater	NA	3638297	392017	4-Mar-11	6.0	2.0
AOCU-GW15	Groundwater	NA	3638323	392284	4-Mar-11	10.0	5.0
AOCU-GW17	Groundwater	NA	3638508	392296	4-Mar-11	13.0	12.5
AOCU-GW19	Groundwater	SS-39	3638704	392310	4-Mar-11	12.0	7.0
AOCU-GW20	Groundwater	SS-39	3638869	391943	4-Mar-11	8.0	4.0
AOCU-GW22	Groundwater	SS-39	3638797	392155	4-Mar-11	8.0	2.0
AOCU-GW24	Groundwater	SS-39	3638799	392336	4-Mar-11	6.0	2.0
AOCU-GW26	Groundwater	SS-39	3638782	392515	3-Mar-11	6.0	2.0
AOCU-GW28	Groundwater	OT-38	3638745	392707	3-Mar-11	5.0	1.5
AOCU-GW32	Groundwater	NA	3638373	392482	3-Mar-11	9.5	4.0
AOCU-GW35	Groundwater	NA	3638305	392854	3-Mar-11	9.0	4.0
AOCU-GW39	Groundwater	NA	3638579	393016	3-Mar-11	9.0	4.0
AOCU-GW41	Groundwater	OT-38/LF-40	3638712	392895	3-Mar-11	9.0	4.0
AOCU-GW43	Groundwater	OT-38	3638824	393013	3-Mar-11	10.75	6.0
AOCU-GW45	Groundwater	OT-38	3638871	393104	3-Mar-11	6.0	2.5
AOCU-GW47	Groundwater	NA	3638930	393302	2-Mar-11	7.0	2.0
AOCU-GW50	Groundwater	NA	3639155	393554	2-Mar-11	8.0	3.0
AOCU-GW52	Groundwater	NA	3638598	393195	2-Mar-11	9.0	5.0
AOCU-GW54	Groundwater	NA	3638614	393393	2-Mar-11	6.0	3.0
AOCU-GW56	Groundwater	NA	3638681	393633	2-Mar-11	6.0	3.0
AOCU-GW57	Groundwater	NA	3638822	393678	2-Mar-11	6.0	2.5
AOCU-GW59	Groundwater	NA	3639046	393714	2-Mar-11	6.0	2.0
AOCU-GW64	Groundwater	NA	3639315	393916	2-Mar-11	8.0	2.0
AOCU-GW66	Groundwater	OT-37	3639253	394199	2-Mar-11	7.0	2.0
AOCU-GW68	Groundwater	OT-37	3639487	394283	1-Mar-11	7.0	4.0
AOCU-GW69	Groundwater	OT-37	3639610	394315	1-Mar-11	4.5	2.5
AOCU-GW71	Groundwater	OT-37	3639993	394482	1-Mar-11	5.5	2.5
AOCU-GW72	Groundwater	OT-37	3640195	394610	1-Mar-11	6.0	2.5
AOCU-GW73	Groundwater	OT-37	3640409	394863	1-Mar-11	9.0	6.0
AOCU-GW75	Groundwater	NA	3640629	395479	28-Feb-11	9.0	4.5
AOCU-GW77	Groundwater	NA	3640681	396003	28-Feb-11	8.5	3.5
AOCU-GW78	Groundwater	NA	3640837	395988	28-Feb-11	8.5	4.0
AOCU-GW80	Groundwater	NA	3641160	396463	28-Feb-11	8.5	2.0
AOCU-GW82	Groundwater	NA	3641007	396563	28-Feb-11	9.0	2.75
AOCU-GW83	Groundwater	NA	3641567	396747	28-Feb-11	7.75	2.75
AOCU-GW84	Groundwater	NA	3640685	396609	1-Mar-11	12.0	11.0
AOCU-GW86	Groundwater	NA	3640531	396510	1-Mar-11	9.0	3.5
AOCU-GW89	Groundwater	OT-04/DP-62	3640429	396822	1-Mar-11	7.5	4.5
AOCU-GW91	Groundwater	OT-04/DP-62	3640410	396889	1-Mar-11	9.0	4.0
AOCU-GW93	Groundwater	NA	3640387	397175	28-Feb-11	6.5	2.5
AOCU-GW96	Groundwater	NA	3640350	397468	28-Feb-11	7.0	1.5
AOCU-GW98	Groundwater	NA	3640584	397134	28-Feb-11	9.0	6.0
AOCU-GW100	Groundwater	NA	3640291	397811	28-Feb-11	6.5	2.0
AOCU-SW01	Surface Water	OT-37	3639588	394299	6-Mar-11	NA	NA
AOCU-SW02	Surface Water	NA	3640660	395448	6-Mar-11	NA	NA
AOCU-SW03	Surface Water	NA	3640297	397795	6-Mar-11	NA	NA
AOCU-HA12	Subsurface Soil	NA	3638297	392017	11-Jul-11	2.5	2.5
AOCU-HA20	Subsurface Soil	SS-39	3638869	391943	11-Jul-11	2.5	2.5
AOCU-HA22	Subsurface Soil	SS-39	3638797	392155	11-Jul-11	2.5	2.5
AOCU-HA24	Subsurface Soil	SS-39	3638799	392336	11-Jul-11	1.5	1.5
AOCU-HA26	Subsurface Soil	SS-39	3638782	392515	11-Jul-11	2.0	2.0
AOCU-HA28	Subsurface Soil	OT-38	3638745	392707	11-Jul-11	2.5	2.5
AOCU-HA35	Subsurface Soil	NA	3638305	392854	11-Jul-11	3.5	3.5
AOCU-HA41	Subsurface Soil	OT-38/LF-40	3638712	392895	11-Jul-11	3.5	3.5
AOCU-HA43	Subsurface Soil	OT-38	3638824	393013	12-Jul-11	2.5	2.5
AOCU-HA45	Subsurface Soil	OT-38	3638871	393104	12-Jul-11	2.0	2.0
AOCU-HA47	Subsurface Soil	NA	3638930	393302	12-Jul-11	2.5	2.5
AOCU-HA50	Subsurface Soil	NA	3639155	393554	12-Jul-11	2.5	2.5
AOCU-HA56	Subsurface Soil	NA	3638681	393633	12-Jul-11	1.5	1.5
AOCU-HA57	Subsurface Soil	NA	3638822	393678	12-Jul-11	1.5	1.5
AOCU-HA64	Subsurface Soil	NA	3639315	393916	12-Jul-11	2.5	2.5
AOCU-HA66	Subsurface Soil	OT-37	3639253	394199	12-Jul-11	2.5	2.5
AOCU-HA68	Subsurface Soil	OT-37	3639487	394283	13-Jul-11	2.5	2.5
AOCU-HA69	Subsurface Soil	OT-37	3639610	394315	13-Jul-11	2.5	2.5
AOCU-HA71	Subsurface Soil	OT-37	3639993	394482	13-Jul-11	2.5	2.5
AOCU-HA84	Subsurface Soil	NA	3640685	396609	13-Jul-11	10.5	10.5
AOCU-HA91	Subsurface Soil	OT-04/DP-62	3640410	396889	13-Jul-11	2.5	2.5
AOCU-GW91-R	Groundwater	OT-04/DP-62	3640410	396889	13-Jul-11	6.0	2.5
AOCU-SA01	Surface Soil	SS-39	3638827	392519	14-Jul-11	NA	NA
AOCU-SA02	Surface Soil	SS-39	3638909	392164	14-Jul-11	NA	NA
AOCU-SA03	Groundwater	OT-37	3639289	394566	14-Jul-11	NA	NA

Notes:
ERP = Environmental Restoration Program
UTM = Universal Transverse Mercator coordinate system
m = meters
DTW = Depth to Water
ft = feet
AOCU = Area of Concern U (Lost River Basin)
NA = Not Applicable

ERP Sites:
SS-39 = Missile Fuel Spill Area
OT-38 = Test Sled Maintenance Area
LF-40 = Causeway Rubble Disposal Area
OT-37 = Early Missile Test Site
OT-04 = Acid Trailer Burial Site
DP-62 = Ritas Draw Disposal Pit

Table 5-2
Sampling and Analysis Summary (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman Air Force Base, New Mexico

Sample Identification	Collection Date	TDS (USEPA Method 2540C)	VOCs (USEPA SW846 Method 8260B)	SVOCs (USEPA SW846 Method 8270C)	TPH (USEPA SW846 Method 8015B)	TAL Metals (USEPA SW846 Methods 6010B/7471A/7470A)	Nitrate (USEPA Method 353.2)	Perchlorate (USEPA SW846 Method 6860)	Calcium (SM 2340B)	Hardness (SM 2340B)	Magnesium (SM 2340B)	pH (SM 4500 H^+B/ SW846 9040A)	Percent Solids (SM19 2540G)	Specific Gravity (ASTM 1429)	Bulk Density (ASTM D2937-94 M)	Fractional Organic Carbon (ASTM D2974-87)
Groundwater Samples																
AOCU-GW01	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW02	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW03	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW05	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW07	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW08	5-Mar-11	X	X	X	X	X	X	X								
AOCU-GW10	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW12	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW15	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW17	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW19	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW20	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW22	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW24	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW24-A	4-Mar-11	X	X	X	X	X	X	X								
AOCU-GW26	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW26-MS	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW26-MSD	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW28	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW32	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW35	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW35-A	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW39	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW41	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW43	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW45	3-Mar-11	X	X	X	X	X	X	X								
AOCU-GW47	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW47-A	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW50	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW52	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW52-MS	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW52-MSD	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW54	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW56	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW57	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW59	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW64	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW66	2-Mar-11	X	X	X	X	X	X	X								
AOCU-GW68	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW69	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW69-A	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW71	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW72	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW73	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW75	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW75-A	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW77	28-Feb-11	X	X	X	X	X	X	X								

Table 5-2
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AOC-U, Lost River Basin RFI Completion Report
Holloman Air Force Base, New Mexico

Sample Identification	Collection Date	TDS (USEPA Method 2540C)	VOCs (USEPA SW846 Method 8260B)	SVOCs (USEPA SW846 Method 8270C)	TPH (USEPA SW846 Method 8015B)	TAL Metals (USEPA SW846 Methods 6010B/7471A/7470A)	Nitrate (USEPA Method 353.2)	Perchlorate (USEPA SW846 Method 6860)	Calcium (SM 2340B)	Hardness (SM 2340B)	Magnesium (SM 2340B)	pH (SM 4500 H^+B/ SW846 9040A)	Percent Solids (SM19 2540G)	Specific Gravity (ASTM 1429)	Bulk Density (ASTM D2937-94 M)	Fractional Organic Carbon (ASTM D2974-87)
AOCU-GW78	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW80	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW82	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW83	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW84	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW86	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW89	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW91	1-Mar-11	X	X	X	X	X	X	X								
AOCU-GW93	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW96	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW98	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW98-MS	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW98-MSD	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW100	28-Feb-11	X	X	X	X	X	X	X								
AOCU-GW91-R	13-Jul-11						X	X								
AOCU-SA03	14-Jul-11						X									
Surface Water Samples																
AOCU-SW01	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
AOCU-SW02	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
AOCU-SW03	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
AOCU-SW03-MS	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
AOCU-SW03-MSD	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
AOCU-SW03-A	6-Mar-11	X	X	X	X	X	X	X	X	X	X	X				
Subsurface Soil Samples																
AOCU-HA12-2	11-Jul-11		X	X	X	X	X	X					X	X	X	X
AOCU-HA20-2	11-Jul-11		X	X	X	X	X	X								
AOCU-HA22-2	11-Jul-11		X	X	X	X	X	X								
AOCU-HA22-2-A	11-Jul-11		X	X	X	X	X	X								
AOCU-HA24-1	11-Jul-11		X	X	X	X	X	X								
AOCU-HA24-1-MS	11-Jul-11		X	X	X	X	X	X								
AOCU-HA24-1-MSD	11-Jul-11		X	X	X	X	X	X								
AOCU-HA26-1.5	11-Jul-11		X	X	X	X	X	X								
AOCU-HA28-2	11-Jul-11		X	X	X	X	X	X								
AOCU-HA35-3	11-Jul-11		X	X	X	X	X	X								
AOCU-HA41-3	11-Jul-11		X	X	X	X	X	X								
AOCU-HA43-2	12-Jul-11		X	X	X	X	X	X								
AOCU-HA45-1.5	12-Jul-11		X	X	X	X	X	X								
AOCU-HA45-1.5-A	12-Jul-11		X	X	X	X	X	X								
AOCU-HA47-2	12-Jul-11		X	X	X	X	X	X								
AOCU-HA50-2	12-Jul-11		X	X	X	X	X	X								
AOCU-HA56-1	12-Jul-11		X	X	X	X	X	X								
AOCU-HA57-1	12-Jul-11		X	X	X	X	X	X								
AOCU-HA64-2	12-Jul-11		X	X	X	X	X	X								
AOCU-HA66-2	12-Jul-11		X	X	X	X	X	X								
AOCU-HA66-2-MS	12-Jul-11		X	X	X	X	X	X								
AOCU-HA66-2-MSD	12-Jul-11		X	X	X	X	X	X								
AOCU-HA68-2	13-Jul-11		X	X	X	X	X	X								
AOCU-HA69-2	13-Jul-11		X	X	X	X	X	X								
AOCU-HA69-2-A	13-Jul-11		X	X	X	X	X	X								

Table 5-2
Sampling and Analysis Summary (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman Air Force Base, New Mexico

Sample Identification	Collection Date	TDS (USEPA Method 2540C)	VOCs (USEPA SW846 Method 8260B)	SVOCs (USEPA SW846 Method 8270C)	TPH (USEPA SW846 Method 8015B)	TAL Metals (USEPA SW846 Methods 6010B/7471A/7470A)	Nitrate (USEPA Method 353.2)	Perchlorate (USEPA SW846 Method 6860)	Calcium (SM 2340B)	Hardness (SM 2340B)	Magnesium (SM 2340B)	pH (SM 4500 H^+B/ SW846 9040A)	Percent Solids (SM19 2540G)	Specific Gravity (ASTM 1429)	Bulk Density (ASTM D2937-94 M)	Fractional Organic Carbon (ASTM D2974-87)
AOCU-HA71-2	13-Jul-11		X	X	X	X	X	X								
AOCU-HA84-10	13-Jul-11		X	X	X	X	X	X								
AOCU-HA91-2	13-Jul-11		X	X	X	X	X	X					X	X	X	X
Surface Soil Samples																
AOCU-SA01	14-Jul-11						X	X								
AOCU-SA02	14-Jul-11						X	X								
Equipment Blank Samples																
AOCU-EB01	11-Jul-11		X	X	X	X	X	X								
AOCU-EB02	12-Jul-11		X	X	X	X	X	X								
AOCU-EB03	13-Jul-11		X	X	X	X	X	X								

Notes:
TDS = Total Dissolved Solids
VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound
TPH = Total Petroleum Hydrocarbons
TAL = Target Analyte List
USEPA = U.S. Environmental Protection Agency
ASTM = American Society of Testing and Materials
SW846 = USEPA Office of Solid Waste
SM = Standard Method

Sample Identification Nomenclature:
AOCU = Area of Concern U (Lost River Basin)
GW = Groundwater Sample
SW = Surface Water Sample
A = Sample suffix denoting a duplicate sample
HA = Hand Auger
SA = Source Area (Suspected)
R = Resample
EB = Equipment Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW01			AOCU-GW01			AOCU-GW01			AOCU-GW02			AOCU-GW02			AOCU-GW02			AOCU-GW03			AOCU-GW03			AOCU-GW03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103080913			21103080926			680-66263-1			21103080914			21103080927			680-66263-2			21103080910			21103080928			680-66263-3		
Date Sampled:					3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			382			NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			161			NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.052**	B		NA			NA			**0.061**	B		NA			NA			**0.13**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.024**	B		NA			NA			0.025	U		NA			NA			0.063	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.013	B		NA			NA			0.0011	U		NA			NA			0.0028	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			1,130			NA			NA			776			NA			NA			539			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.014	B		NA			NA			0.018	B		NA			NA			**0.072**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.004	U		NA			NA			0.0099	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.074			NA			NA			0.014	U		NA			NA			0.23	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			2,110		J	NA			NA			8,220		J	NA			NA			13,700		J	NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.71**			NA			NA			**0.24**			NA			NA			**0.41**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.026	B		NA			NA			0.07	B		NA			NA			0.12	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			80.4			NA			NA			627			NA			NA			481			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			11,900			NA			NA			48,100			NA			NA			54,700			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U	UJ	NA			NA			0.0082	U	UJ	NA			NA			0.02	U	UJ	NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.027	U		NA			NA			0.068	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	0.005	B	J	NA			NA			4.37	J		NA			NA			0.107		J	NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**43,800**			NA			NA			**165,000**			NA			NA			**215,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.1	U		NA			NA			0.28	J		NA			NA			0.1	U	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW05			AOCU-GW05			AOCU-GW05			AOCU-GW07			AOCU-GW07			AOCU-GW07			AOCU-GW08			AOCU-GW08			AOCU-GW08		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103080907			21103080929			680-66263-4			21103080908			21103080930			680-66263-5			21103080911			21103080931			680-66263-6		
Date Sampled:					3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011			3/5/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			8.25	J		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			1.55	J		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	151			NA			NA			190			NA			NA			130			NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.058**	B		NA			NA			**0.14**	B		NA			NA			**0.17**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			0.025	U		NA			NA			0.063	U		NA			NA			**0.13**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.0028	U		NA			NA			0.0028	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			824			NA			NA			543			NA			NA			496			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.018	B		NA			NA			**0.065**	B		NA			NA			**0.059**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			0.0099	U		NA			NA			0.0099	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.014	U		NA			NA			0.24	B		NA			NA			0.2	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			8,290		J	NA			NA			14,000		J	NA			NA			15,300		J	NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.6**			NA			NA			**0.22**	B		NA			NA			**0.43**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.065	B		NA			NA			0.12	B		NA			NA			0.13	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			490			NA			NA			416			NA			NA			549			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			39,600			NA			NA			57,800			NA			NA			67,000			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U	UJ	NA			NA			0.02	U	UJ	NA			NA			0.02	U	UJ	NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.068	U		NA			NA			0.068	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	1.1		J	NA			NA			0.102	J		NA			NA			0.102		J	NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**137,000**			NA			NA			**243,000**			NA			NA			**234,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.1	U		NA			NA			0.1	U		NA			NA			0.1	U	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW10			AOCU-GW10			AOCU-GW10			AOCU-GW12			AOCU-GW12			AOCU-GW12			AOCU-GW15			AOCU-GW15			AOCU-GW15		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103080904			21103080932			680-66263-7			21103080905			21103080933			680-66263-8			21103080901			21103080934			680-66263-9		
Date Sampled:					3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	76.3	J		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.081**	B		NA			NA			**0.076**	B		NA			NA			**0.05**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.052**	B		NA			NA			0.025	U		NA			NA			0.013	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.0011	U		NA			NA			0.0029	B	J	NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			838			NA			NA			840			NA			NA			1,120			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.018	B		NA			NA			0.028	B		NA			NA			0.01	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			0.004	U		NA			NA			0.002	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.014	U		NA			NA			0.16			NA			NA			0.016	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			7,840		J	NA			NA			4,360		J	NA			NA			3,440		J	NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**1.19**			NA			NA			**0.62**			NA			NA			**1.18**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.063	B		NA			NA			0.048	B		NA			NA			0.032	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			332			NA			NA			611			NA			NA			143			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			33,500			NA			NA			38,700			NA			NA			17,400			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U	UJ	NA			NA			0.0082	U	UJ	NA			NA			0.0041	U	UJ	NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.027	U		NA			NA			0.014	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	0.065		J	NA			NA			**16.6**	J		NA			NA			0.014		J	NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**157,000**			NA			NA			**114,000**			NA			NA			**54,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.1	U		NA			NA			1.3	M		NA			NA			0.1	U	

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Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW17			AOCU-GW17			AOCU-GW17			AOCU-GW19			AOCU-GW19			AOCU-GW19			AOCU-GW20			AOCU-GW20			AOCU-GW20		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103080902			21103080935			680-66263-10			21103050406			21103050428			680-66263-11			21103050408			21103050429			680-66263-12		
Date Sampled:					3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	14	J		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			1.21	J		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			5.38			NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			2.04	J		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	73.1	J		NA			NA			44.2	U		NA			NA			53.1	J		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	53.2	J		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.14**	B		NA			NA			**0.13**	B		NA			NA			**0.097**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			0.063	U		NA			NA			0.051	U		NA			NA			**0.047**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0028	U		NA			NA			0.0022	U		NA			NA			0.0011	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			358			NA			NA			822			NA			NA			899			NA		
Chromium	0.05	0.1	2.5	2.50	NA			**0.055**	B		NA			NA			**0.057**	B		NA			NA			0.014	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0099	U		NA			NA			0.0079	U		NA			NA			0.004	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.11	B		NA			NA			0.26			NA			NA			0.014	U		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			17,100		J	NA			NA			9,200		J	NA			NA			8,540		J	NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.7**			NA			NA			**1.06**			NA			NA			**1.04**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.15	B		NA			NA			0.089	B		NA			NA			0.068	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			555			NA			NA			327			NA			NA			331			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			62,600			NA			NA			47,300			NA			NA			39,900			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.02	U	UJ	NA			NA			0.016	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.068	U		NA			NA			0.054	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	0.248		J	NA			NA			5.49			NA			NA			**500**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**194,000**			NA			NA			**183,000**			NA			NA			**165,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.2	U		NA			NA			0.82	M		NA			NA			**35**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW22			AOCU-GW22			AOCU-GW22			AOCU-GW24			AOCU-GW24			AOCU-GW24			AOCU-GW24-A			AOCU-GW24-A			AOCU-GW24-A		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103050409			21103050430			680-66263-13			21103050414			21103050431			680-66263-14			21103050415			21103050432			680-66263-15		
Date Sampled:					3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011			3/4/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	3.36	J		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	1.1	J		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	54	J		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.092**	B		NA			NA			**0.056**	B		NA			NA			**0.061**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.058**	B		NA			NA			**0.098**	B	J	NA			NA			**0.049**	B	J	NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.0011	U		NA			NA			0.0011	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			953			NA			NA			860			NA			NA			836			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.023	B		NA			NA			0.0044	B	J	NA			NA			0.015	B	J	NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			0.004	U		NA			NA			0.0044	B	J	NA		
Copper	1.0	1.3	22	57.46	NA			0.029	B		NA			NA			0.014	U		NA			NA			0.015	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			7,320		J	NA			NA			6,890			NA			NA			6,510			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.94**			NA			NA			**0.34**			NA			NA			**0.32**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.066	B		NA			NA			0.046	B		NA			NA			0.056	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			215			NA			NA			226			NA			NA			234			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			33,300			NA			NA			31,800			NA			NA			33,000			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U		NA			NA			0.0082	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.027	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**223**			NA			NA			**136**			NA			NA			**142**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**136,000**			NA			NA			**121,000**			NA			NA			**123,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			**89**			NA			NA			**140**			NA			NA			**140**		

Notes:

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UTL = Upper Tolerance Limit
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AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
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SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
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[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW26			AOCU-GW26			AOCU-GW26			AOCU-GW28			AOCU-GW28			AOCU-GW28			AOCU-GW32			AOCU-GW32			AOCU-GW32		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103050401			21103050420			680-66222-1			21103050418			21103050423			680-66222-2			21103050417			21103050424			680-66222-3		
Date Sampled:					3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			44.5	J		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.053**	B		NA			NA			**0.032**	B		NA			NA			**0.073**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.052**	B		NA			NA			**0.053**			NA			NA			**0.032**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.00055	U		NA			NA			0.0063	B	J	NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			994			NA			NA			931			NA			NA			1,210			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.023	B		NA			NA			0.0017	U		NA			NA			0.022	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			0.0021	B	J	NA			NA			0.004	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.029	B		NA			NA			0.0069	U		NA			NA			0.065	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			6,120			NA			NA			4,350			NA			NA			5,810			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**1.02**			NA			NA			**1.31**			NA			NA			**4.1**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.047	B		NA			NA			0.03	B		NA			NA			0.047	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			164			NA			NA			157			NA			NA			201			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			27,400			NA			NA			21,600			NA			NA			29,600			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U		NA			NA			0.0041	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.014	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**111**			NA			NA			**60.5**			NA			NA			0.146			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**95,000**			NA			NA			**86,500**			NA			NA			**132,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			**42**	J		NA			NA			0.88			NA			NA			0.11	J	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW35			AOCU-GW35			AOCU-GW35			AOCU-GW35-A			AOCU-GW35-A			AOCU-GW35-A			AOCU-GW39			AOCU-GW39			AOCU-GW39		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103050411			21103050425			680-66222-4			21103050412			21103050426			680-66222-5			21103041016			21103041026			680-66222-6		
Date Sampled:					3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	3.47	J		NA			NA			3.88	J		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			1.7	J		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	84.9	J	J	NA			NA			52.3	J	J	NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.12**	B		NA			NA			**0.09**	B		NA			NA			**0.12**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.1**	B		NA			NA			0.051	U		NA			NA			**0.07**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0022	U		NA			NA			0.0022	U		NA			NA			0.0028	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			1,130			NA			NA			1,140			NA			NA			860			NA		
Chromium	0.05	0.1	2.5	2.50	NA			**0.062**	B		NA			NA			**0.056**	B		NA			NA			**0.072**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0079	U		NA			NA			0.0079	U		NA			NA			0.0099	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.24			NA			NA			0.24			NA			NA			0.23	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			9,430			NA			NA			9,600			NA			NA			11,600			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**1.59**			NA			NA			**1.61**			NA			NA			**2.24**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.1	B		NA			NA			0.088	B		NA			NA			0.092	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			187			NA			NA			190			NA			NA			231			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			39,100			NA			NA			37,400			NA			NA			48,800			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.016	U		NA			NA			0.016	U		NA			NA			0.02	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.054	U		NA			NA			0.054	U		NA			NA			0.068	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**38.6**			NA			NA			**39.3**			NA			NA			0.149			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**157,000**			NA			NA			**166,000**			NA			NA			**187,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			4.5			NA			NA			4.6			NA			NA			0.2	U	

Notes:

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[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
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[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW41			AOCU-GW41			AOCU-GW41			AOCU-GW43			AOCU-GW43			AOCU-GW43			AOCU-GW45			AOCU-GW45			AOCU-GW45		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103041017			21103041029			680-66222-9			21103041013			21103041027			680-66222-7			21103041014			21103041028			680-66222-8		
Date Sampled:					3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011			3/3/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	109	J		NA			NA			102	J		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.087**	B		NA			NA			**0.17**	B		NA			NA			**0.16**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.053**	B		NA			NA			0.063	U		NA			NA			0.051	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0022	U		NA			NA			0.0028	U		NA			NA			0.0022	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			1,310			NA			NA			555			NA			NA			1,920			NA		
Chromium	0.05	0.1	2.5	2.50	NA			**0.058**	B		NA			NA			**0.063**	B		NA			NA			**0.059**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0079	U		NA			NA			0.0099	U		NA			NA			0.0079	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.24			NA			NA			0.42			NA			NA			0.26			NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			9,910			NA			NA			5,900			NA			NA			8,860			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**1.47**			NA			NA			**0.48**			NA			NA			**1.13**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.11	B		NA			NA			0.062	B		NA			NA			0.093	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			238			NA			NA			151			NA			NA			195			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			39,900			NA			NA			48,700			NA			NA			33,300			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.016	U		NA			NA			0.3	B		NA			NA			0.016	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.054	U		NA			NA			0.068	U		NA			NA			0.054	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**38.8**			NA			NA			**18.1**			NA			NA			**123**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**148,000**			NA			NA			**120,000**			NA			NA			**118,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			3.2	M		NA			NA			1.9	M		NA			NA			2	M	

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A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW47			AOCU-GW47			AOCU-GW47			AOCU-GW47-A			AOCU-GW47-A			AOCU-GW47-A		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103041008			21103041019			680-66203-1			21103041009			21103041020			680-66203-2		
Date Sampled:					3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	57.4	J		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.2**	B	J	NA			NA			**0.11**	B	J	NA		
Arsenic	0.1	0.01	10	28.53	NA			0.063	U		NA			NA			0.063	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0028	U		NA			NA			0.0028	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			1,710			NA			NA			1,630			NA		
Chromium	0.05	0.1	2.5	2.50	NA			**0.08**	B		NA			NA			**0.083**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0099	U		NA			NA			0.0099	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.32			NA			NA			0.35			NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			12,000			NA			NA			11,500			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**1.49**			NA			NA			**1.46**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.12	B		NA			NA			0.12	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			306			NA			NA			292			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			45,600			NA			NA			46,200			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.02	U		NA			NA			0.02	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.068	U		NA			NA			0.068	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**86.2**			NA			NA			**87.7**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**174,000**			NA			NA			**157,000**			NA			NA		
Perchlorate (SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			5.3			NA			NA			5.4		

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater, *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW50			AOCU-GW50			AOCU-GW50			AOCU-GW52			AOCU-GW52			AOCU-GW52			AOCU-GW54			AOCU-GW54			AOCU-GW54		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103041011			21103041021			680-66203-3			21103041002			21103041022			680-66203-4			21103041001			21103041025			680-66203-5		
Date Sampled:					3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	56.6	J		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			0.02	U		NA			NA			0.1	U		NA			NA			0.1	U		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.073**			NA			NA			0.063	U		NA			NA			0.063	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.0028	U		NA			NA			0.0028	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			2,620			NA			NA			805			NA			NA			869			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.0017	U		NA			NA			0.033	B		NA			NA			**0.069**	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.003	B		NA			NA			0.0099	U		NA			NA			0.0099	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.0069	U		NA			NA			0.15	B		NA			NA			0.34			NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			4,410			NA			NA			7,740			NA			NA			10,700			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.32**			NA			NA			**1.28**			NA			NA			**8.38**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.032	B		NA			NA			0.05	B		NA			NA			0.095	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			134			NA			NA			213			NA			NA			251			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			16,000			NA			NA			42,300			NA			NA			46,300			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.02	U		NA			NA			0.02	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.068	U		NA			NA			0.068	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**86.1**			NA			NA			0.11			NA			NA			0.139			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**85,200**			NA			NA			**166,000**			NA			NA			**185,000**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			6.2			NA			NA			0.048	J		NA			NA			0.2	U	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
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MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
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Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW56			AOCU-GW56			AOCU-GW56			AOCU-GW57			AOCU-GW57			AOCU-GW57			AOCU-GW59			AOCU-GW59			AOCU-GW59		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103030916			21103030924			680-66203-6			21103030910			21103030925			680-66203-7			21103030911			21103030926			680-66203-8		
Date Sampled:					3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.555	J		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.13**	B		NA			NA			**0.12**	B		NA			NA			**0.096**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.058**	B		NA			NA			0.051	U		NA			NA			0.025	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0022	U		NA			NA			0.0022	U		NA			NA			0.0011	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			989			NA			NA			1,030			NA			NA			922			NA		
Chromium	0.05	0.1	2.5	2.50	NA			**0.059**	B		NA			NA			**0.06**	B		NA			NA			0.025	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0079	U		NA			NA			0.0079	U		NA			NA			0.004	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.22			NA			NA			0.2			NA			NA			0.077	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			10,100			NA			NA			10,500			NA			NA			6,470			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.34**			NA			NA			**0.66**			NA			NA			**0.34**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.1	B		NA			NA			0.1	B		NA			NA			0.058	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			244			NA			NA			316			NA			NA			179			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			37,800			NA			NA			42,900			NA			NA			30,800			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.016	U		NA			NA			0.016	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.054	U		NA			NA			0.054	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**331**			NA			NA			**140**			NA			NA			0.676			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**191,000**			NA			NA			**168,000**			NA			NA			**84,000**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			**17**			NA			NA			11			NA			NA			0.11	J	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW64			AOCU-GW64			AOCU-GW64			AOCU-GW66			AOCU-GW66			AOCU-GW66			AOCU-GW68			AOCU-GW68			AOCU-GW68		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103030913			21103030927			680-66203-9			21103030914			21103030928			680-66203-10			21103030904			21103030918			680-66162-1		
Date Sampled:					3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/2/2011			3/1/2011			3/1/2011			3/1/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.1**	B		NA			NA			**0.094**	B		NA			NA			**0.031**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			0.025	U		NA			NA			0.025	U		NA			NA			**0.031**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.0011	U		NA			NA			0.00055	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			2,380			NA			NA			3,400			NA			NA			1,670			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.026	B		NA			NA			0.028	B		NA			NA			0.007	B	J	NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			0.004	U		NA			NA			0.002	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.064	B		NA			NA			0.072	B		NA			NA			0.0069	U		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			6,290			NA			NA			5,790			NA			NA			2,290			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.055**	B		NA			NA			0.012	U		NA			NA			**0.19**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.053	B		NA			NA			0.06	B		NA			NA			0.019	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			165			NA			NA			144			NA			NA			94.2			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			24,800			NA			NA			21,000			NA			NA			11,200			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U		NA			NA			0.0082	U		NA			NA			0.0041	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.027	U		NA			NA			0.014	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**42**			NA			NA			**83.5**			NA			NA			**54.3**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**113,000**			NA			NA			**114,000**			NA			NA			**66,800**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			4.4			NA			NA			4.4			NA			NA			2.8		

Notes:
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TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
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MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
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N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
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Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW69			AOCU-GW69			AOCU-GW69			AOCU-GW69-A			AOCU-GW69-A			AOCU-GW69-A			AOCU-GW71			AOCU-GW71			AOCU-GW71		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103030907			21103030919			680-66162-2			21103030908			21103030920			680-66162-3			21103030905			21103030921			680-66162-4		
Date Sampled:					3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			1.63	J		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			2.31	J		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.049**	B		NA			NA			0.02	U		NA			NA			**0.021**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.02**	B		NA			NA			**0.021**	B		NA			NA			**0.03**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.00055	U		NA			NA			0.00055	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			1,940			NA			NA			1,900			NA			NA			1,050			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.0055	B	J	NA			NA			0.0031	B	J	NA			NA			0.0093	B	J	NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.002	U		NA			NA			0.002	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.0069	U		NA			NA			0.0069	U		NA			NA			0.014	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			2,530			NA			NA			2,590			NA			NA			2,040			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.27**			NA			NA			**0.23**			NA			NA			0.016	B		NA		
Nickel	0.2	NV	15.9	15.89	NA			0.023	B		NA			NA			0.024	B		NA			NA			0.018	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			95.1			NA			NA			94.2			NA			NA			60			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			12,000			NA			NA			12,100			NA			NA			10,200			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.0041	U		NA			NA			0.0041	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.014	U		NA			NA			0.014	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**42.5**			NA			NA			**46.6**			NA			NA			**37.2**			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**54,500**			NA			NA			**67,300**			NA			NA			**41,400**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			14			NA			NA			13			NA			NA			**15**		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW72			AOCU-GW72			AOCU-GW72			AOCU-GW73			AOCU-GW73			AOCU-GW73			AOCU-GW75			AOCU-GW75			AOCU-GW75		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103030902			21103030922			680-66162-5			21103030901			21103030923			680-66162-6			21103021605			21103021619			680-66093-1		
Date Sampled:					3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			2/28/2011			2/28/2011			2/28/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			693			NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			98.2	J		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.05**	B		NA			NA			0.02	U		NA			NA			**0.065**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.071**			NA			NA			**0.029**	B		NA			NA			**0.058**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.00055	U		NA			NA			0.0011	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			806			NA			NA			767			NA			NA			710			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.0067	B	J	NA			NA			0.0059	B	J	NA			NA			0.015	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.0065	B		NA			NA			0.0076	B		NA		
Copper	1.0	1.3	22	57.46	NA			0.0069	U		NA			NA			0.01	B		NA			NA			0.023	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			2,760			NA			NA			2,140			NA			NA			4,110			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.22**			NA			NA			**0.78**			NA			NA			**0.87**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.021	B		NA			NA			0.02	B		NA			NA			0.033	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			103			NA			NA			64.2			NA			NA			139			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			16,200			NA			NA			11,200			NA			NA			24,000			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.0041	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.014	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	0.011			NA			NA			7.17			NA			NA			5.14			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**62,500**			NA			NA			**65,300**			NA			NA			**60,600**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.18	J		NA			NA			2.1			NA			NA			0.31	J	

Notes:

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TAL = Target Analyte List
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mg/L = Milligrams per liter
NV = No Value
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MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW75A			AOCU-GW75A			AOCU-GW75A			AOCU-GW77			AOCU-GW77			AOCU-GW77			AOCU-GW78			AOCU-GW78			AOCU-GW78		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103021604			21103021620			680-66093-2			21103021601			21103021621			680-66093-3			21103021602			21103021622			680-66093-4		
Date Sampled:					2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.425	J		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.5	J		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.054**	B		NA			NA			**0.023**	B		NA			NA			**0.022**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.045**	B		NA			NA			**0.024**	B		NA			NA			**0.03**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			0.00055	U		NA			NA			0.005	B	J	NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			765			NA			NA			641			NA			NA			629			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.015	B		NA			NA			0.011	B		NA			NA			0.016	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.0084	B		NA			NA			0.002	U		NA			NA			0.002	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.018	B		NA			NA			0.032	B		NA			NA			0.048	B		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			4,370			NA			NA			2,540			NA			NA			1,950			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.94**			NA			NA			0.0062	U		NA			NA			0.011	B		NA		
Nickel	0.2	NV	15.9	15.89	NA			0.038	B		NA			NA			0.02	B		NA			NA			0.016	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			157			NA			NA			71.8			NA			NA			66.3			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			26,500			NA			NA			13,500			NA			NA			11,200			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U		NA			NA			0.0041	U		NA			NA			0.0041	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			0.014	U		NA			NA			0.051	B		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	4.97			NA			NA			5.12			NA			NA			5.31			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**66,600**			NA			NA			**44,400**			NA			NA			**39,600**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.3	J		NA			NA			1.1			NA			NA			0.18	J	

Notes:
NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
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UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
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N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW80			AOCU-GW80			AOCU-GW80			AOCU-GW82			AOCU-GW82			AOCU-GW82			AOCU-GW83			AOCU-GW83			AOCU-GW83		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103021107			21103021623			680-66093-5			21103021104			21103021624			680-66093-6			21103021105			21103021625			680-66093-7		
Date Sampled:					2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			5.59	J		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	58.2	J		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	84.7	J		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.027**	B		NA			NA			**0.023**	B		NA			NA			**0.027**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.028**	B		NA			NA			**0.02**	B		NA			NA			**0.039**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.00055	U		NA			NA			0.00055	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			613			NA			NA			629			NA			NA			650			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.01	B		NA			NA			0.014	B		NA			NA			0.0098	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.002	U		NA			NA			0.0033	B		NA		
Copper	1.0	1.3	22	57.46	NA			0.0069	U		NA			NA			0.074			NA			NA			0.0069	U		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			3,200			NA			NA			989			NA			NA			2,860			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.054**	B		NA			NA			0.0076	B		NA			NA			**0.25**			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.021	B		NA			NA			0.011	B		NA			NA			0.019	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			154			NA			NA			23.7			NA			NA			83.1			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			18,400			NA			NA			4,930			NA			NA			14,200			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.0041	U		NA			NA			0.0041	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.014	U		NA			NA			0.014	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	5.74			NA			NA			8.01			NA			NA			0.11			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**51,400**			NA			NA			**21,200**			NA			NA			**47,200**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.43	J		NA			NA			1.0			NA			NA			0.2	U	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

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[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
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[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW84			AOCU-GW84			AOCU-GW84			AOCU-GW86			AOCU-GW86			AOCU-GW86			AOCU-GW89			AOCU-GW89			AOCU-GW89		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103021617			21103021632			680-66162-7			21103021616			21103021633			680-66162-8			21103021613			21103021634			680-66162-9		
Date Sampled:					3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011			3/1/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.643	J		NA			NA			1.04	J		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			0.191	U		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			0.189	U		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			0.288	U		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			0.304	U		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			0.486	U		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			44.2	U		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.031**	B		NA			NA			0.02	U		NA			NA			**0.043**	B		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.027**	B		NA			NA			**0.043**	B		NA			NA			0.025	U		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.00055	U		NA			NA			0.0011	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			801			NA			NA			611			NA			NA			665			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.01	B	J	NA			NA			0.0047	B	J	NA			NA			0.011	B	J	NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.002	U		NA			NA			0.004	U		NA		
Copper	1.0	1.3	22	57.46	NA			0.032	B		NA			NA			0.0069	B		NA			NA			0.014	U		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			1,690			NA			NA			2,230			NA			NA			6,210			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.39**			NA			NA			0.011	B	J	NA			NA			0.025	B		NA		
Nickel	0.2	NV	15.9	15.89	NA			0.018	B		NA			NA			0.019	B		NA			NA			0.052	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			73.6			NA			NA			56.1			NA			NA			177			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			13,500			NA			NA			10,200			NA			NA			29,000			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.0041	U		NA			NA			0.0082	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.014	U		NA			NA			0.027	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**13.5**			NA			NA			3.53			NA			NA			2.72			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**42,400**			NA			NA			**45,200**			NA			NA			**70,200**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			13			NA			NA			0.67			NA			NA			3.6		

Notes:
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UTL = Upper Tolerance Limit
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Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
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Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW91			AOCU-GW91			AOCU-GW91			AOCU-GW91-R			AOCU-GW93			AOCU-GW93			AOCU-GW93			AOCU-GW96			AOCU-GW96			AOCU-GW96		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103021614			21103021635			680-66162-10			21107150501			21103021108			21103021626			680-66093-8			21103021101			21103021627			680-66093-9		
Date Sampled:					3/1/2011			3/1/2011			3/1/2011			7/13/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			NA			0.322	U		NA			NA			4.6	J		NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			NA			0.049	U		NA			NA			0.049	U		NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			NA			0.276	U		NA			NA			0.276	U		NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			NA			0.076	U		NA			NA			0.076	U		NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			NA			0.175	U		NA			NA			0.175	U		NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			NA			0.078	U		NA			NA			0.078	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			NA			0.355	U		NA			NA			0.355	U		NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			NA			0.191	U		NA			NA			3.94	J		NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			NA			0.189	U		NA			NA			0.303	J		NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			NA			0.288	U		NA			NA			0.642	J		NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			NA			0.304	U		NA			NA			1.14	J		NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			NA			0.486	U		NA			NA			0.563	J		NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			NA			49.7	J		NA			NA			107	J		NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			NA			45.7	U		NA			NA			45.7	U		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.049**	B		NA			NA			NA			0.02	U		NA			NA			0.02	U		NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.083**	B		NA			NA			NA			**0.037**	B		NA			NA			**0.032**	B		NA		
Barium	1.0	2.0	30.2	30.13	NA			0.0011	U		NA			NA			NA			0.00055	U		NA			NA			0.00055	U		NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			554			NA			NA			NA			726			NA			NA			840			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.0034	U		NA			NA			NA			0.0029	B		NA			NA			0.0097	B		NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.004	U		NA			NA			NA			0.0043	B		NA			NA			0.0023	B		NA		
Copper	1.0	1.3	22	57.46	NA			0.014	U		NA			NA			NA			0.0069	U		NA			NA			0.0069	U		NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			8,110			NA			NA			NA			3,860			NA			NA			3,340			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			**0.18**			NA			NA			NA			0.0062	U		NA			NA			0.047	B		NA		
Nickel	0.2	NV	15.9	15.89	NA			0.051	B		NA			NA			NA			0.024	B		NA			NA			0.023	B		NA		
Potassium	NV	NV	120,480	120,479.98	NA			278			NA			NA			NA			155			NA			NA			145			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			39,100			NA			NA			NA			22,700			NA			NA			18,900			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0082	U		NA			NA			NA			0.0041	U		NA			NA			0.0041	U		NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.027	U		NA			NA			NA			0.014	U		NA			NA			0.014	U		NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	**605 [10]**			NA			NA			7.92			1.89			NA			NA			0.207			NA			NA		
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**91,000**			NA			NA			NA			**65,000**			NA			NA			**53,600**			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			**42**			**52.9**	N		NA			NA			2.8			NA			NA			0.14	J	

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
GW = Groundwater Sample
A = Denotes a field duplicate sample
SA = Source Area [Suspected] (grab water)

[1] Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] USEPA National Primary Drinking Water Regulations MCLs (816-F-09-004, May 2009)
[3] Table 3, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[4] Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[5] If results are not detected (U) then the value is set at the MDL
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Concentration in Groundwater. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012)
[7] USEPA Secondary Drinking Water Standard (816-F-09-004, May 2009)
[8] USEPA, Interim Drinking Water Health Advisory, for exposure to Perchlorate in water (December 2008)
[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)
[10] The nitrate result from AOCU-91, collected on 3/1/2011, is considered a false positive due to sampling error and comparison with the resampling results in July 2011.

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
Indicates combined TPH-GRO/DRO/ORO analytical results above the NMED TPH Screening Guideline for Kerosene and Jet Fuel, Concentration in Groundwater, Table 6-3
Indicates analytical results above the New Mexico Groundwater Quality Standard, or USEPA MCL, but below the NMED Approved Background Levels
Indicates analytical results above the NMED Approved Background Levels, but below the New Mexico Groundwater Quality Standard, or USEPA MCL
Indicates analytical results above the NMED Approved Background Levels, but without established New Mexico Groundwater Quality Standard or USEPA MCL

Table 7-1
Groundwater Analytical Results (February - July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background		AOCU-GW98			AOCU-GW98			AOCU-GW98			AOCU-GW100			AOCU-GW100			AOCU-GW100			AOCU-SA03		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	NMED Approved Background Levels [3]	Dissolved Metals in Groundwater UTL [4]	21103021607			21103021628			680-66093-10			21103021102			21103021631			680-66093-11			21107150505		
Date Sampled:					2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			2/28/2011			7/14/2011		
Analyte					Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1	Result [5]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Acetone	NV	NV	NV	NV	0.322	U		NA			NA			0.322	U		NA			NA			NA		
Benzene	0.1	0.005	NV	NV	0.049	U		NA			NA			0.049	U		NA			NA			NA		
Bromomethane	NV	NV	NV	NV	0.276	U		NA			NA			0.276	U		NA			NA			NA		
Chloromethane	NV	NV	NV	NV	0.076	U		NA			NA			0.076	U		NA			NA			NA		
Naphthalene	0.03	NV	NV	NV	0.175	U		NA			NA			0.175	U		NA			NA			NA		
Toluene	0.75	1.0	NV	NV	0.078	U		NA			NA			0.078	U		NA			NA			NA		
Semi-Volatile Organic Compounds (8270C)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Benzyl Alcohol	NV	NV	NV	NV	0.355	U		NA			NA			0.355	U		NA			NA			NA		
bis(2-Ethylhexyl)phthalate	NV	NV	NV	NV	0.191	U		NA			NA			0.191	U		NA			NA			NA		
Di-n-butyl phthalate	NV	NV	NV	NV	0.189	U		NA			NA			0.189	U		NA			NA			NA		
Fluorene	NV	NV	NV	NV	0.288	U		NA			NA			0.288	U		NA			NA			NA		
Phenanthrene	NV	NV	NV	NV	0.304	U		NA			NA			0.304	U		NA			NA			NA		
Pyrene	NV	NV	NV	NV	0.486	U		NA			NA			0.486	U		NA			NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Gasoline Range Organics (C6-C10)	18.5 [6]	NV	NV	NV	13	U		NA			NA			13	U		NA			NA			NA		
Diesel Range Organics (C10-C22)	18.5 [6]	NV	NV	NV	44.2	U		NA			NA			44.2	U		NA			NA			NA		
Oil Range Organics (>C22-C36)	18.5 [6]	NV	NV	NV	45.7	U		NA			NA			45.7	U		NA			NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	**mg/L**	**mg/L**	**µg/L**	**µg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Antimony	NV	0.006	6	10.00	NA			**0.022**	B		NA			NA			0.02	U		NA			NA		
Arsenic	0.1	0.01	10	28.53	NA			**0.025**	B		NA			NA			0.013	U		NA			NA		
Barium	1.0	2.0	30.2	30.13	NA			0.00055	U		NA			NA			0.00055	U		NA			NA		
Calcium	NV	NV	1,151,302	1,151,301.20	NA			638			NA			NA			828			NA			NA		
Chromium	0.05	0.1	2.5	2.50	NA			0.0092	B		NA			NA			0.013	B		NA			NA		
Cobalt	0.05	NV	2.6	2.60	NA			0.002	U		NA			NA			0.0021	B		NA			NA		
Copper	1.0	1.3	22	57.46	NA			0.017	B		NA			NA			0.069			NA			NA		
Magnesium	NV	NV	3,630,927	3,630,926.70	NA			1,820			NA			NA			1,020			NA			NA		
Manganese	0.2	0.05 [7]	50	118.65	NA			0.017	B		NA			NA			**0.28**			NA			NA		
Nickel	0.2	NV	15.9	15.89	NA			0.016	B		NA			NA			0.01	B		NA			NA		
Potassium	NV	NV	120,480	120,479.98	NA			31.2			NA			NA			29.5			NA			NA		
Sodium	NV	NV	19,972,499	19,972,499.00	NA			7,890			NA			NA			4,800			NA			NA		
Vanadium	NV	NV	73.8	73.73	NA			0.0041	U		NA			NA			0.0041	U		NA			NA		
Zinc	10	5.0 [7]	23	56.28	NA			0.014	U		NA			NA			0.014	U		NA			NA		
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrate (USEPA 353.2)	10	10	NV	NV	5.66			NA			NA			2.63			NA			NA			0.003	U	
Solids, Total Dissolved (SM 2540 C)	1,000	500 [7]	NV	65,956.58 [9]	**30,200**			NA			NA			**21,000**			NA			NA			NA		
Perchlorate (USEPA SW846 6860)	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate	NV	15 [8]	NV	NV	NA			NA			0.78			NA			NA			0.15	J		NA		

Notes:

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[9] Total Groundwater UTL, Table 5-18, *Basewide Background Study Report, Holloman Air Force Base, New Mexico* (NationView/Bhate JV III, July 2011)

Bold value indicates analytes above the New Mexico Groundwater Quality Standards, the USEPA MCLs, or the NMED TPH Screening Guidelines
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Table 7-2
Surface Water Analytical Results (March 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Surface Water Screening Levels		AOCU-SW01			AOCU-SW01			AOCU-SW01			AOCU-SW02			AOCU-SW02			AOCU-SW02			AOCU-SW03			AOCU-SW03			AOCU-SW03			AOCU-SW03-A			AOCU-SW03-A			AOCU-SW03-A		
Lab Sample Identification:	NMWQCC[1]	USEPA NRWQC [2]	21103080923			21103080936			680-66263-16			21103080924			21103080937			680-66263-17			21103080916			21103080938			680-66263-18			21103080917			21103080939			680-66263-19		
Date Sampled:			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011			3/6/2011		
Analyte			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
Volatile Organic Compounds (SW846 8260B)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Acetone	NV	NV	0.322	U		NA			NA			5.38	J		NA			NA			0.322	U		NA			NA			0.322	U		NA			NA		
Semi-Volatile Organic Compounds (8270C)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
All SVOCs	NV	NV	ND			NA			NA			ND			NA			NA			ND			NA			NA			ND			NA			NA		
Total Petroleum Hydrocarbons (SW846 8015B)	mg/L	mg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Gasoline Range Organics (C6-C10)	NV	NV	13	U		NA			NA			13	U		NA			NA			13	U		NA			NA			13	U		NA			NA		
Diesel Range Organics (C10-C22)	NV	NV	44.2	U		NA			NA			680			NA			NA			44.2	U		NA			NA			50.8	J		NA			NA		
Oil Range Organics (>C22-C36)	NV	NV	50.5	J		NA			NA			1,150			NA			NA			45.7	U		NA			NA			57.4	J		NA			NA		
TAL Metals Analysis (SW846 6010B/7470A)	µg/L	µg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Antimony	5.6	5.6	NA			**0.03**	B		NA			NA			**0.027**	B		NA			NA			**0.028**	B		NA			NA			**0.033**	B		NA		
Calcium	NV	NV	NA			1,160			NA			NA			951			NA			NA			842			NA			NA			874			NA		
Chromium	100	NV	NA			0.013	B		NA			NA			0.012	B		NA			NA			0.0075	B	J	NA			NA			0.015	B	J	NA		
Copper	1,300	1,300	NA			0.033	B		NA			NA			0.039	B		NA			NA			0.14		J	NA			NA			0.085		J	NA		
Magnesium	NV	NV	NA			3,050		J	NA			NA			2,850		J	NA			NA			1,300		J	NA			NA			1,510		J	NA		
Manganese	NV	50	NA			0.0062	U		NA			NA			**0.16**			NA			NA			**0.08**		J	NA			NA			0.045	B	J	NA		
Nickel	100	610	NA			0.03	B		NA			NA			0.029	B		NA			NA			0.047	B	J	NA			NA			0.019	B	J	NA		
Potassium	NV	NV	NA			80.8			NA			NA			95.3			NA			NA			49.5			NA			NA			55.1			NA		
Sodium	NV	NV	NA			14,500			NA			NA			16,100			NA			NA			6,510			NA			NA			7,240			NA		
Vanadium	100 [4]	NV	NA			0.0041	U	UJ	NA			NA			0.0041	U	UJ	NA			NA			0.0041	U	UJ	NA			NA			0.042	B	J	NA		
Zinc	7,400	7400	NA			0.014	U		NA			NA			0.014	U		NA			NA			0.059	B		NA			NA			0.014	U		NA		
General Chemistry	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Nitrate (USEPA 353.2)	10	10	6.59			NA			NA			0.628			NA			NA			0.938			NA			NA			0.966			NA			NA		
Calcium (SM 2340 B)	NV	NV	1,150			NA			NA			969			NA			NA			879			NA			NA			829			NA			NA		
Hardness (SM 2340 B)	NV	NV	15,100			NA			NA			14,300			NA			NA			8,030			NA			NA			8,070			NA			NA		
Magnesium (SM 2340 B)	NV	NV	2,980			NA			NA			2,880			NA			NA			1,420			NA			NA			1,460			NA			NA		
Solids, Total Dissolved (SM 2540 C)	NV	250	**50,000**			NA			NA			**57,600**			NA			NA			**20,400**			NA			NA			**22,000**			NA			NA		
pH (SM 4500 H^+B/SW846 9040A)	NV	5 to 9	8.19			NA			NA			8.3			NA			NA			7.66			NA			NA			7.74			NA			NA		
Perchlorate (SW846 6860)	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Perchlorate	NV	15 [5]	NA			NA			10			NA			NA			0.32	J		NA			NA			0.31			NA			NA			0.29		

Notes:

NMWQCC = New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
NRWQC = National Recommended Water Quality Criteria
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = Micrograms per liter
mg/L = Milligrams per liter
SVOCs = Semi-volatile Organic Compounds
ND = All SVOCs not detected
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
NMED = New Mexico Environment Department
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier

Qualifiers
U = Not detected
J = Indicates an estimated value
B = Indicates the result is between the RDL and the MDL
M = Manual integrated compound

Client Sample Nomenclature
AOCU = Lost River Basin (Area of Concern U)
SW = Surface water sample
A = Denotes a field duplicate sample

[1] Water quaility numeric criteria for surface water, domestic water supply, New Mexico Administrative Code 20.6.4.900
[2] USEPA NRWQC for Priority Polutants, Human Health for the consumption of Water + Organism (http://water.epa.gov/scitech/swguidance/standards/current/index.cfm)
[3] If results are not detected (U) then the value is set at the MDL
[4] Water quality numeric criteria for surface water, Irrigation/Livestock Watering (no value established for Domestic Water Supply), New Mexico Administrative Code 20.6.4.900.
[5] USEPA Interim Drinking Water Health Advisory for exposure to Perchlorate in water (December 2008)
Bold value indicates analytes above the NMWQCC numeric criteria for surface water or the USEPA NRWQC

Table 7-3
Subsurface and Surface Soil Analytical Results (July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	AOCU-HA12-2			AOCU-HA20-2			AOCU-HA22-2			AOCU-HA22-2-A			AOCU-HA24-1			AOCU-HA26-1.5			AOCU-HA28-2			AOCU-HA35-3			AOCU-HA41-3		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Level [2]	21107131601			21107121301			21107121303			21107121304			21107121305			21107121308			21107121309			21107131602			21107121310		
Date Sampled:			7/11/2011			7/11/2011			7/11/2011			7/11/2011			7/11/2011			7/11/2011			7/11/2011			7/11/2011			7/11/2011		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
General Chemistry (SM 2540G)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Total Moisture	NV	NV	34.3			27.4			27.5			28.5			31.3			28.8			37.1			28.2			29.4		
Nitrate (USEPA 353.2)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrate	125,000	NV	3.28			35.7			17			20.5			43.2			35.6			0.041	U		0.036	U		0.037	U	
Perchlorate (USEPA SW846 6860)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Perchlorate	54.8	NV	0.00147	NU		0.00827	N		0.0141	N		0.0107	N		0.0482	N		0.0129	N		0.00150	NU		0.00143	NU		0.00154	NU	
TAL Metals Analysis (USEPA SW846 6010B/7471B)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	2,820			4,110			8,140		J	3,900		J	13,500			10,700			14,400			7,830			4,250		
Antimony	31.3	1.6	1.22	B		0.4	B		0.96	B		0.33	U		0.34	U		0.33	U		0.19	U		0.64	B		0.33	U	
Arsenic	3.9	3.7	1.05	B		1.94	B		2.83	B		2.26	B		3.58	B		3.83	B		**5.06**			2.77	B		3.08	B	
Barium	15,600	169.3	31.8			39.9			67.5		J	35.5		J	105			87.6			134			65.1			40.5		
Beryllium	156	1.6	0.041	B	J	0.19	B		0.66		J	0.17	B	J	1.26			0.93			1.69			0.31	B	J	0.17	B	
Cadmium	70.3	0.3	0.6	B	J	0.52	B	J	0.45	B	J	0.37	B	J	0.4	B	J	0.42	B	J	0.86			0.53	B	J	0.38	B	J
Calcium	NV [5]	317,332	252,000			197,000			179,000			182,000			131,000			145,000			97,500			158,000			175,000		
Chromium (Total)	NV [5]	25	2.69	B	J	3.87			10.5		J	3.92		J	17.5			14.2			21.1			6.66			3.9		
Cobalt	23 [4]	7.7	0.79	B	J	1.51			4.02		J	1.39		J	7.13			5.8			11.8			2.24			1.99		
Copper	3,130	13	7.33			5.54			9.99		J	4.55		J	14.3			11.5			17.6			6.61			7.03		
Iron	54,800	23,049	1,960			3,960			10,400		J	3,610		J	17,700			14,600			21,200			6,300			4,980		
Lead	400	10.9	1.4	B		3.18			8.66		J	1.21	B	J	13.2			10.3			14.8			3.24			3.02		
Magnesium	NV [5]	16,991	20,400			19,800			19,000			20,900			15,900			18,700			13,300			36,000			27,300		
Manganese	1,860	393	59.4			131			207			159			315			293			327			187			179		
Nickel	1,560	17.4	1.29	B	J	3.35	B	J	9.69		J	3.11	B	J	17.5			14.3			23.2			5.11			3.33	B	J
Potassium	NV [5]	5,077	1100			1,560			2,580		J	1,240		J	3,900			2,970			4,460			2,140			1,270		
Selenium	391	1.4	1.46	U		0.58	B		0.53	U		0.97	B		0.56	U		0.88	B		1.05	B		0.53	U		1.21	B	
Silver	391	1.1	0.28	B	J	0.25	B	J	0.096	U		0.11	B	J	0.1	U		0.098	U		0.055	U		0.096	U		0.14	B	J
Sodium	NV [5]	5,196	17,100			17,700			15,900			12,700			21,300			20,800			16,600			14,200			14,000		
Thallium	0.782	1.3	0.76	U		0.27	U		0.27	U		0.61	B	J	0.29	U		1.12	B	J	0.36	B	J	0.27	U		0.45	B	J
Vanadium	391	42.6	16.4			8.14			19.5		J	8.21		J	31.4			27			40.1			12.5			11.7		
Zinc	23,500	54.6	6.8			15.4			38.1		J	12.3		J	59			47.8			77.5			21.6			16.9		
Mercury	15.6	10.8	0.016	B		0.0053	B		0.0061	B		0.0047	U		0.011	B		0.0077	B		0.014	B		0.018			0.0048	U	
Total Petroleum Hydrocarbons (USEPA SW846 8015B)	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Diesel Range Organics (C10-C22)	1,000 [6]	NV	1,930	U		2,500	J		1,780	U		1,800	U		1,850	U		1,800	U		2,020	U		1,780	U		1,830	U	
Oil Range Organics (>C22-C36)	1,000 [6]	NV	4,100	J		2,630	U		2,630	U		2,670	U		2,730	U		4,340	J		2,980	U		3,120	J		2,700	U	
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	902	U		775	U		593	U		822	U		763	U		972	J		880	U		795	U		772	U	
Volatile Organic Compounds (USEPA SW846 8260B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
1,2,4-Trimethylbenzene	62 [4]	NV	0.143	U		0.149	U		0.151	U		0.135	U		0.135	U		0.166	U		0.184	U		0.128	U		0.14	U	
2-Butanone (MEK)	37,100	NV	3.83	J		6.51			6.34	J		6.45			6.12			6.17	J		21.4			26.6		J	16.6		
Acetone	66,600	NV	14.4	J		30.7	J		22.7	J		19	J		14.3	J		19.7	J		60.9			101			66.4		
Benzene	15.4	NV	1.27	J		3.03	J		4.37	J		4.92	J		5.24	J		6.24	J		6.42	J		2.14	J		1.87	J	
Chloroform	5.86	NV	0.878	J	J	0.969	J	J	1.2	J	J	1.00	J	J	1.14	J	J	0.958	J	J	1.39	J	J	0.906	J	J	0.98	J	J
Toluene	5,270	NV	0.977	J		2.65	J		2.92	J		3.72	J		3.99	J		4.92	J		4.48	J		1.53	J		1.52	J	
m,p-Xylene	NV [5]	NV	0.425	U		0.444	U		0.452	U		0.572	J		0.807	J		0.655	J		0.549	U		0.382	U		0.418	U	
n-Hexane	938	NV	1.18	J		1.49	J		2.16	J		2.42	J		3.07	J		2.63	J		4.93	J		2.1	J	J	1.52	J	
o-Xylene	898	NV	0.962	J		1.14	J		1.2	J		1.25	J		1.28	J		1.55	J		1.56	J		0.919	J	J	0.959	J	
Semi-Volatile Organic Compounds (USEPA SW846 8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
bis(2-Ethylhexyl)phthalate	347	NV	29.7	U		27	U		26.9	U		110	J		28.5	U		117	J		31	U		26.8	U		27.8	U	
Pentachlorophenol	8.94	NV	218	J		174	U		173	U		174	U		184	U		177	U		200	U		173	U		178	U	

Notes:
NMED = New Mexico Environment Department
USEPA = U.S. Environmental Protection Agency
SM = Standard Method
TAL = Target Analyte List
µg/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
% = Percent
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
B = (Organics) Indicates the analyte was detected in the associated Method Blank
B = (Inorganics) Indicates the result is between the RDL and the MDL
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified
Client Sample Nomenclature:
AOCU = Area of Concern U (Lost River Basin)
HA = Hand Auger Sample (subsurface soil)
Final digit(s) = Ending depth of the sample interval (feet below ground surface)
SA = Source Area [Suspected] (surface soil)

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (November 2012)
[5] No Value established for NMED Residential SSL (June 2012) and USEPA RSL (November 2012)
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines (June, 2012)
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Kerosene and Jet Fuel, Residential Direct Exposure, Table 6-3)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL or USEPA RSL
Indicates analytical results above the NMED Approved Background Level, but without established NMED Residential SSL or USEPA RSL

Table 7-3
Subsurface and Surface Soil Analytical Results (July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	AOCU-HA43-2			AOCU-HA45-1.5			AOCU-HA45-1.5-A			AOCU-HA47-2			AOCU-HA50-2			AOCU-HA56-1			AOCU-HA57-1			AOCU-HA64-2			AOCU-HA66-2		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Level [2]	21107131603			21107131604			21107131605			21107131606			21107131607			21107131608			21107131609			21107141202			21107141203		
Date Sampled:			7/12/2011			7/12/2011			7/12/2011			7/12/2011			7/12/2011			7/12/2011			7/12/2011			7/12/2011			7/12/2011		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
General Chemistry (SM 2540G)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Total Moisture	NV	NV	30.1			29.7			30.2			29.2			32.5			32.6			26.3			29.4			26.2		
Nitrate (USEPA 353.2)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrate	125,000	NV	0.037	U		11.9			10.1			4.29			13.5			43			20.2			7.98			12.5		
Perchlorate (USEPA SW846 6860)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Perchlorate	54.8	NV	0.00140	NU		0.00148	NU		0.00141	NU		0.00140	NU		0.00150	NU		0.00587	JN		0.00137	NU		0.00154	NU		0.00146	NU	
TAL Metals Analysis (USEPA SW846 6010B/7471B)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	13,200			10,700			14,900			6,440			2,210			1,420			3,490			2,400			1,970		
Antimony	31.3	1.6	0.17	U		0.34	U		0.17	U		0.33	U		0.54	B		0.74	B		0.32	U		0.51	B		0.59	B	
Arsenic	3.9	3.7	2.92			3.61	B		3.65			2	B		0.78	B		0.26	U		0.82	B		1.02	B	J	0.92	B	J
Barium	15,600	169.3	118			94.2			108			53.3			22.7			18.4			33.6			24.1			17.1		
Beryllium	156	1.6	1.43			0.96			1.2			0.46	B	J	0.041	B	J	0.025	B	J	0.13	B	J	0.12	B	J	0.14	B	J
Cadmium	70.3	0.3	0.44			0.28	B	J	0.44			0.34	B	J	0.15	B	J	0.29	B	J	0.2	B	J	0.21	B	J	0.2	B	J
Calcium	NV [5]	317,332	95,000			120,000			97,000			181,000			163,000			191,000			135,000			95,700			129,000		
Chromium (Total)	NV [5]	25	17.3			13.8			17.9			7.85			2.4			1.29			3.23			2.44			2.43		
Cobalt	23 [4]	7.7	8.14			5.62			7.26			2.97			0.78	B	J	0.64	B	J	1.11			0.86	B	J	0.93	B	J
Copper	3,130	13	13.9			13.1			12.7			7.28			3.23			2.43			4.09			3.41			3.13		
Iron	54,800	23,049	16,700			13,400			16,700			6,920			2,200			1,290			3,240			2,150			2,100		
Lead	400	10.9	12.9			10.3			11.3			5.5			1.97			0.96	B		2.53			1.22	B		1.47	B	
Magnesium	NV [5]	16,991	17,000			15,100			16,700			10,600			5,740			5,800			12,400			9,610			4,750		
Manganese	1,860	393	255			185		J	327		J	141			46.2			33.8			83.6			57.3			41.4		
Nickel	1,560	17.4	18.8			14			18			7.25			1.37	B	J	0.84	B	J	2.42	B	J	2.04	B	J	2.18	B	J
Potassium	NV [5]	5,077	3,970			3,040			4,150			2,040			851			592			1,050			617			517		
Selenium	391	1.4	0.53	B		0.55	U		0.31	B		0.54	U		0.57	U		0.57	U		0.52	U		0.54	U		0.58	B	
Silver	391	1.1	0.05	U		0.099	U		0.05	U		0.099	U		0.1	U		0.1	U		0.095	U		0.098	U		0.095	U	
Sodium	NV [5]	5,196	18,100			16,600			16,400			17,100			5,850			8,560			10,900			5,820			5,630		
Thallium	0.782	1.3	0.3	B	J	0.29	B	J	0.35	B	J	0.28	U		0.29	U		0.29	U		0.27	U		0.28	U		0.51	B	J
Vanadium	391	42.6	31.7			25.7			28.3			14.7			7.7			3.85			8.31			7.45			5.74		
Zinc	23,500	54.6	63.8			46.8			58.1			26			7.95			4.48			13.3			7.58			7.68		
Mercury	15.6	10.8	0.034			0.029			0.029			0.022			0.017	B		0.016	B		0.014	B		0.0048	U		0.0072	B	
Total Petroleum Hydrocarbons (USEPA SW846 8015B)	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Diesel Range Organics (C10-C22)	1,000 [6]	NV	1,820	U		2,780	J		1,820	U		1,810	U		1,910	U		1,880	U		1,750	U		1,800	U		1,750	U	
Oil Range Organics (>C22-C36)	1,000 [6]	NV	7,430	J		4,750	J		3,040	J		2,940	J		2,830	U		3,930	J		3,290	J		2,660	U		2,590	U	
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	750	U		902	U		790	U		731	U		1,030	U		811	U		807	U		1,030	U		817	U	
Volatile Organic Compounds (USEPA SW846 8260B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
1,2,4-Trimethylbenzene	62 [4]	NV	0.189	J		0.184	J		0.135	J		0.128	U		0.132	U		0.169	U		0.142	U		0.154	U		0.148	U	
2-Butanone (MEK)	37,100	NV	11.8		J	6.03		J	6.63		J	8.96		J	6.01		J	7.9		J	9.94		J	6.74		J	9.18		J
Acetone	66,600	NV	30.3			12.8	J	J	10.6	J	J	23.6	J		12.7	J	J	18.7	J		38.7			17.8	J		26.6	J	
Benzene	15.4	NV	6.45			6.46			6.78			3.07	J		2.07	J		0.828	J	J	1.02	J		3.91	J		4.16	J	
Chloroform	5.86	NV	0.712	J	J	0.776	J	J	0.804	J	J	0.743	J	J	0.785	J	J	0.888	J	J	0.861	J	J	0.851	J	J	0.935	J	J
Toluene	5,270	NV	5.25	J		4.82	J		5.08	J		2.63	J		1.67	J		0.49	J		1.04	J		3.17	J		2.81	J	
m,p-Xylene	NV [5]	NV	0.987	J		1.1	J		1.01	J		0.381	U		0.394	U		0.504	U		0.425	U		0.459	U		0.441	U	
n-Hexane	938	NV	3.53	J		3.69	J		4.13	J		2.22	J	J	1.17	J	J	0.491	J	J	1.18	J	J	1.97	J	J	2.36	J	J
o-Xylene	898	NV	1.39	J	J	1.38	J	J	1.43	J	J	1.1	J	J	0.979	J	J	1.06	J	J	0.964	J	J	1.22	J	J	1.23	J	J
Semi-Volatile Organic Compounds (USEPA SW846 8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
bis(2-Ethylhexyl)phthalate	347	NV	27.9	U		27.9	U		28	U		27.6	U		28.5	U		29	U		26.6	U		27.8	U		26.6	U	
Pentachlorophenol	8.94	NV	179	U		179	U		180	U		177	U		183	U		186	U		171	U		178	U		171	U	

Notes:
NMED = New Mexico Environment Department
USEPA = U.S. Environmental Protection Agency
SM = Standard Method
TAL = Target Analyte List
µg/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
% = Percent
NV = No Value
NA = Not Analyzed
MDL = Method Detection Limit
RDL = Reporting Detection Limit
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
Qualifiers:
U = Not detected
J = Indicates an estimated value
B = (Organics) Indicates the analyte was detected in the associated Method Blank
B = (Inorganics) Indicates the result is between the RDL and the MDL
N = Parameter is Environmental Laboratory Accreditation Program (ELAP) accredited but not National Environmental Laboratory Accreditation Conference (NELAC) certified
Client Sample Nomenclature:
AOCU = Area of Concern U (Lost River Basin)
HA = Hand Auger Sample (subsurface soil)
Final digit(s) = Ending depth of the sample interval (feet below ground surface)
SA = Source Area [Suspected] (surface soil)

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
[3] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (November 2012)
[5] No Value established for NMED Residential SSL (June 2012) and USEPA RSL (November 2012)
[6] Table 6-3, TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure. Risk Assessment Guidance for Site Investigations and Remediation (NMED, June 2012).
Bold value indicates analytes above NMED SSLs (June, 2012) or TPH results above NMED TPH Screening Guidelines (June, 2012)
Indicates that the combined TPH-GRO/DRO/ORO results exceed the NMED TPH Screening Guidelines (Kerosene and Jet Fuel, Residential Direct Exposure, Table 6-3)
Indicates analytical results above the NMED Residential SSL, but below the NMED Approved Background Level
Indicates analytical results above the NMED Approved Background Level, but below the NMED Residential SSL or USEPA RSL
Indicates analytical results above the NMED Approved Background Level, but without established NMED Residential SSL or USEPA RSL

Table 7-3
Subsurface and Surface Soil Analytical Results (July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	AOCU-HA68-2			AOCU-HA69-2			AOCU-HA69-2-A			AOCU-HA71-2			AOCU-HA84-10			AOCU-HA91-2			AOCU-SA01			AOCU-SA02		
Lab Sample Identification:	NMED Residential[1]	NMED Approved Background Level [2]	21107141206			21107141207			21107141208			21107141209			21107141210			21107141211			21107150503			21107150504		
Date Sampled:			7/13/2011			7/13/2011			7/13/2011			7/13/2011			7/13/2011			7/13/2011			7/14/2011			7/14/2011		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
General Chemistry (SM 2540G)	**%**	**%**	**%**			**%**			**%**			**%**			**%**			**%**			**%**			**%**		
Total Moisture	NV	NV	23			24.5			31.7			28.9			23.3			21.2			27.4			47.9		
Nitrate (USEPA 353.2)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrate	125,000	NV	9.73			12			12.9			9.33			24.9			1.63			223			477		
Perchlorate (USEPA SW846 6860)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Perchlorate	54.8	NV	0.00149	NU		0.00749	JN	J	0.0137	N	J	0.00738	N		0.00134	NU		0.00128	NU		0.0656	N		42.3	N	
TAL Metals Analysis (USEPA SW846 6010B/7471B)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,000	13,722	699			2,290			1,860			1,410			7,410			3,330			NA			NA		
Antimony	31.3	1.6	0.38	B		0.31	U		0.35	U		0.33	U		0.31	B		0.76	B		NA			NA		
Arsenic	3.9	3.7	0.75	B	J	1.4	B	J	0.84	B	J	0.25	U		2.31	B	J	0.99	B	J	NA			NA		
Barium	15,600	169.3	11.3			20.6			19.8			25.3			66.3			38			NA			NA		
Beryllium	156	1.6	0.031	B	J	0.11	B	J	0.11	B	J	0.074	B	J	0.66			0.17	B	J	NA			NA		
Cadmium	70.3	0.3	0.15	B	J	0.24	B	J	0.24	B	J	0.27	B	J	0.38	B	J	0.21	B	J	NA			NA		
Calcium	NV [5]	317,332	96,100			144,000			155,000			129,000			119,000			118,000			NA			NA		
Chromium (Total)	NV [5]	25	0.92	B		2.51			2.02			1.63			9.74			3.82			NA			NA		
Cobalt	23 [4]	7.7	0.31	B	J	0.89	B	J	0.69	B	J	0.61	B	J	4.3			1.55			NA			NA		
Copper	3,130	13	2.25			4.03			2.94			1.84			7.67			3.29			NA			NA		
Iron	54,800	23,049	675			2,220			1,680			1,350			9,590			3,500			NA			NA		
Lead	400	10.9	0.29	B		1.65		J	0.54	B	J	0.34	B		6.54			1.97			NA			NA		
Magnesium	NV [5]	16,991	3,460			11,300		J	6,230		J	3,660			6,180			5,060			NA			NA		
Manganese	1,860	393	20			59.7			42.6			24.5			233			80.1			NA			NA		
Nickel	1,560	17.4	0.61	B	J	2.08	B	J	1.56	B	J	1.21	B	J	10.5			3.46	B	J	NA			NA		
Potassium	NV [5]	5,077	228			663			517			383			1,830			968			NA			NA		
Selenium	391	1.4	0.5	U		0.51	U		0.56	U		0.54	U		0.51	B		0.49	U		NA			NA		
Silver	391	1.1	0.091	U		0.092	U		0.1	U		0.098	U		0.09	U		0.089	U		NA			NA		
Sodium	NV [5]	5,196	2,760			11,700		J	3,770		J	2,540			4,490			7,620			NA			NA		
Thallium	0.782	1.3	0.26	U		0.26	U		0.29	U		0.28	U		0.37	B	J	0.25	U		NA			NA		
Vanadium	391	42.6	3.58			7.16			6.04			4.48			20.4			9.38			NA			NA		
Zinc	23,500	54.6	2.56			7.84			6.1			4.68			31			10.7			NA			NA		
Mercury	15.6	10.8	0.0044	U		0.0045	U		0.005	U		0.0047	U		0.0045	U		0.0043	U		NA			NA		
Total Petroleum Hydrocarbons (USEPA SW846 8015B)	**mg/kg**	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Diesel Range Organics (C10-C22)	1,000 [6]	NV	1,660	U		1,690	U		1,890	U		1,780	U		1,680	U		1,630	U		NA			NA		
Oil Range Organics (>C22-C36)	1,000 [6]	NV	2,450	U		2,500	U		2,790	U		2,640	U		2,480	U		2,410	U		NA			NA		
Gasoline Range Organics (C6-C10)	1,000 [6]	NV	757	U		825	U		985	U		780	U		803	U		665	U		NA			NA		
Volatile Organic Compounds (USEPA SW846 8260B)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
1,2,4-Trimethylbenzene	62 [4]	NV	0.123	U		0.136	U		0.142	U		0.313	J		0.75	J		0.117	U		NA			NA		
2-Butanone (MEK)	37,100	NV	7.17		J	5.18	J	J	5.18	J	J	5.31	J	J	4.9	J	J	6.29		J	NA			NA		
Acetone	66,600	NV	16.6	J	J	9.1	J	J	10.9	J	J	8.28	J	J	4.47	J	J	16.9	J		NA			NA		
Benzene	15.4	NV	2.6	J		2.09	J		2.39	J		6.2			6.29			2.59	J		NA			NA		
Chloroform	5.86	NV	0.788	J	J	0.839	J	J	0.703	J	J	0.838	J	J	0.679	J	J	0.772	J	J	NA			NA		
Toluene	5,270	NV	2.6	J		1.79	J		2.27	J		6.7			6.61			2.44	J		NA			NA		
m,p-Xylene	NV [5]	NV	0.366	U		0.407	U		0.422	U		1.1	J		1.8	J		0.349	U		NA			NA		
n-Hexane	938	NV	1.77	J	J	1.46	J	J	1.81	J	J	3.04	J		3.42	J		1.46	J	J	NA			NA		
o-Xylene	898	NV	1.01	J	J	1.03	J	J	1.09	J	J	1.48	J	J	1.56	J	J	0.953	J	J	NA			NA		
Semi-Volatile Organic Compounds (USEPA SW846 8270C)	**mg/kg**	**µg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
bis(2-Ethylhexyl)phthalate	347	NV	25.4	U		26	U		28.7	U		27.5	U		25.6	U		24.5	U		NA			NA		
Pentachlorophenol	8.94	NV	163	U		167	U		184	U		177	U		164	U		157	U		NA			NA		

Notes:
NMED = New Mexico Environment Department
USEPA = U.S. Environmental Protection Agency
SM = Standard Method
TAL = Target Analyte List
µg/kg = Micrograms per kilogram
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Client Sample Nomenclature:
AOCU = Area of Concern U (Lost River Basin)
HA = Hand Auger Sample (subsurface soil)
Final digit(s) = Ending depth of the sample interval (feet below ground surface)
SA = Source Area [Suspected] (surface soil)

[1] Table A-1, NMED Soil Screening Levels. *Risk Assessment Guidance for Site Investigations and Remediation* (NMED, June 2012).
[2] Table 1, Conditional Approval Letter, Basewide Background Study Report, Holloman Air Force Base, New Mexico (NMED, December 2011)
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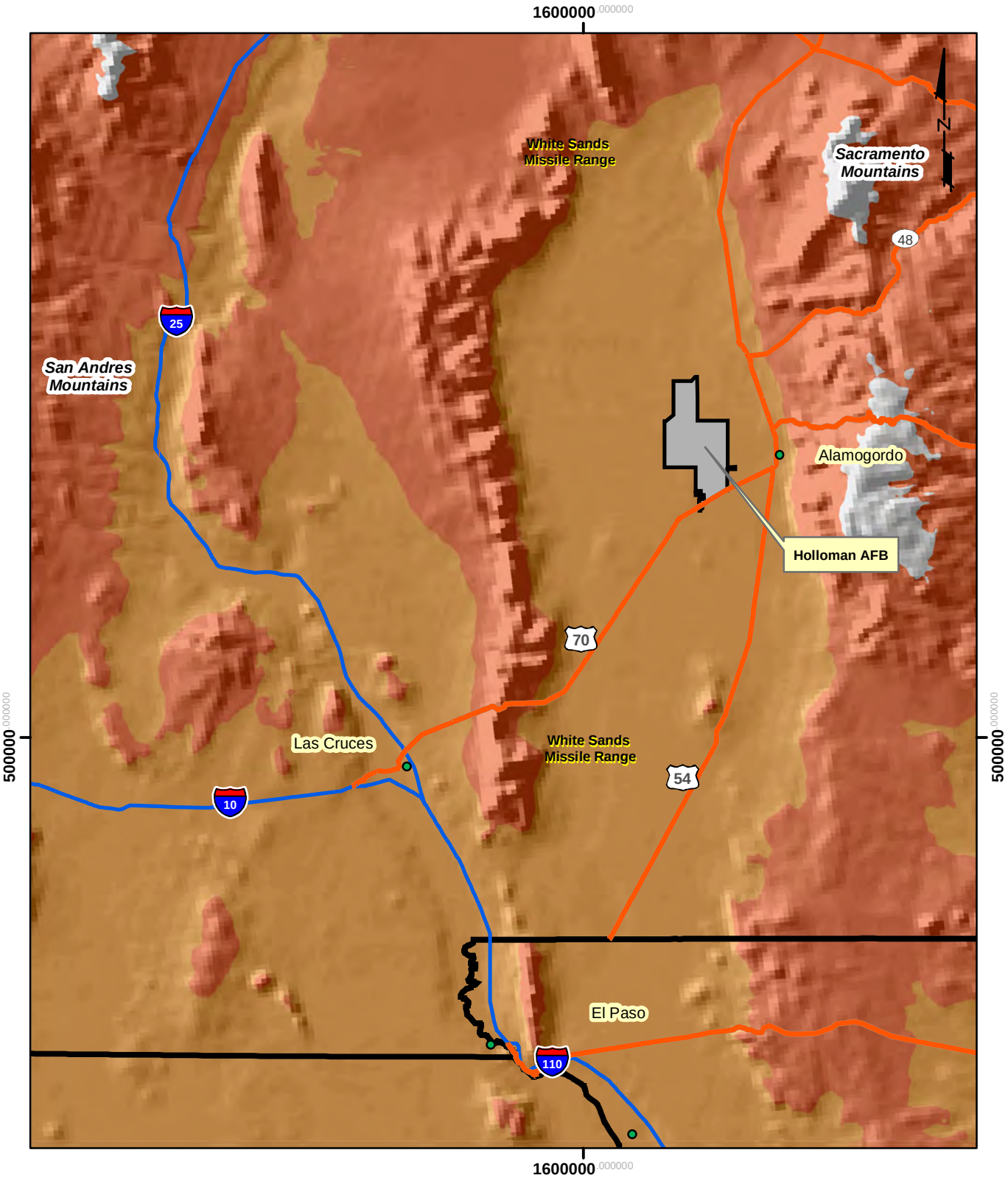
Indicates analytical results above the NMED Approved Background Level, but without established NMED Residential SSL or USEPA RSL

Table 7-4
Soil Geotechnical Results (July 2011)
AOC-U, Lost River Basin RFI Completion Report
Holloman AFB, New Mexico

Sample Identification	**Method**	**Unit**	**AOCU-HA12-2**	**AOCU-HA91-2**	**Average**
Depth (ft bgs)			**1-2**	**1-2**	
Date sampled			**7/11/2011**	**7/13/2011**	
Parameter					
Bulk Density (Dry Basis)	ASTM D2937-94 M	g/mL	1.4	1.6	1.500
Fractional Organic Carbon	ASTM D2974-87	%	7.4	5.0	6.200
Moisture Content (Solids, Percent)	SM19 2540G	%	78.8	83.3	81.050
Specific Gravity	ASTM 1429		1.8	2.0	1.900

Notes:
ASTM - American Society for Testing and Materials
SM = Standard Method
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent
AOCU - Area of Concern U (Lost River Basin)
HA - Hand Auger Sample

FIGURES



0 4.5 9 18 27 36 Miles

Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet)

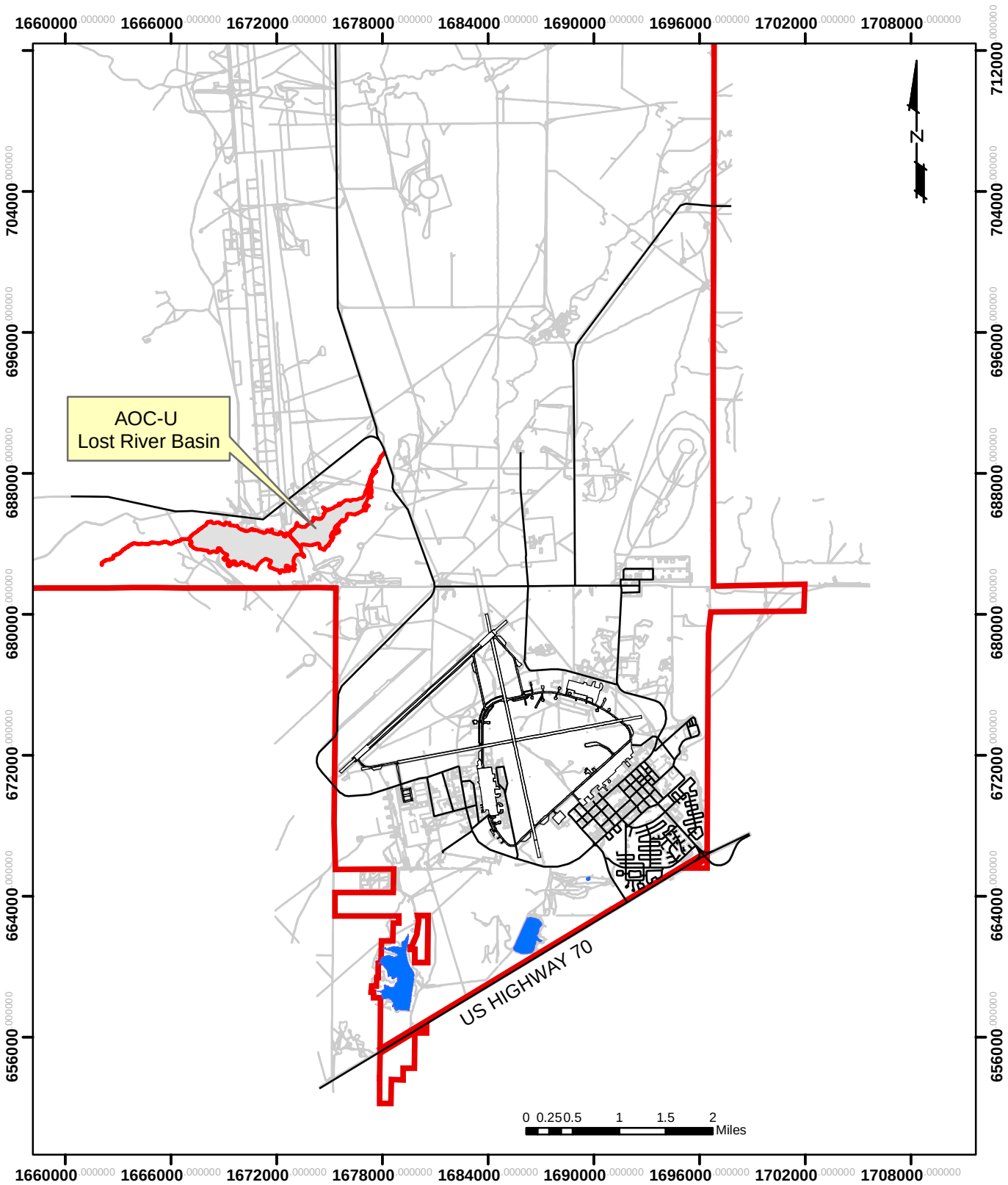
NATIONVIEW

Holloman AFB, New Mexico Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1"=18 Miles	8/5/11	cm
			DRAWING NO: Figure 2-1

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-1



Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet)

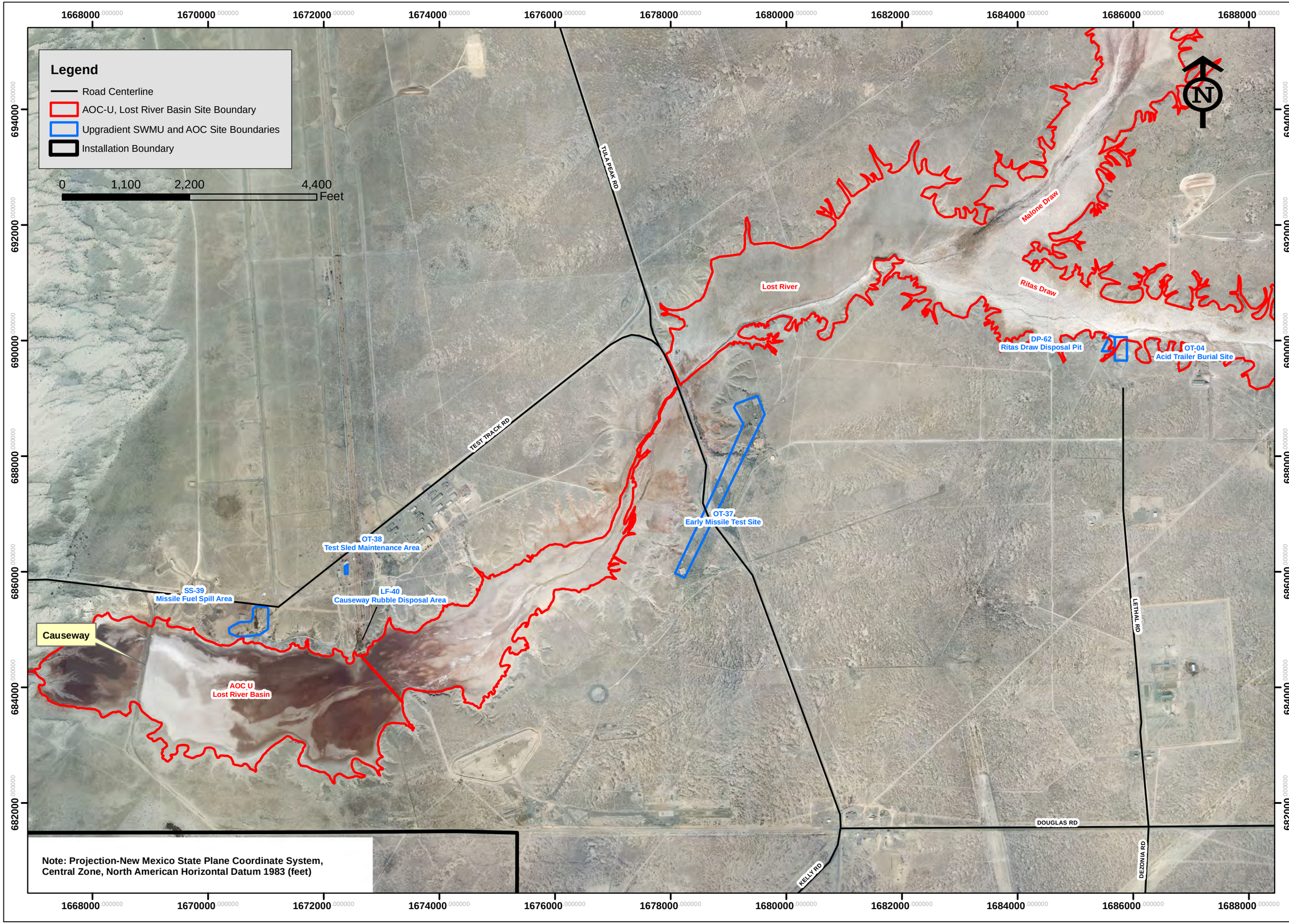
NATIONVIEW

AOC-U
Site Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1"=8000'	8/5/11	cm
			DRAWING NO: Figure 2-2

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-2



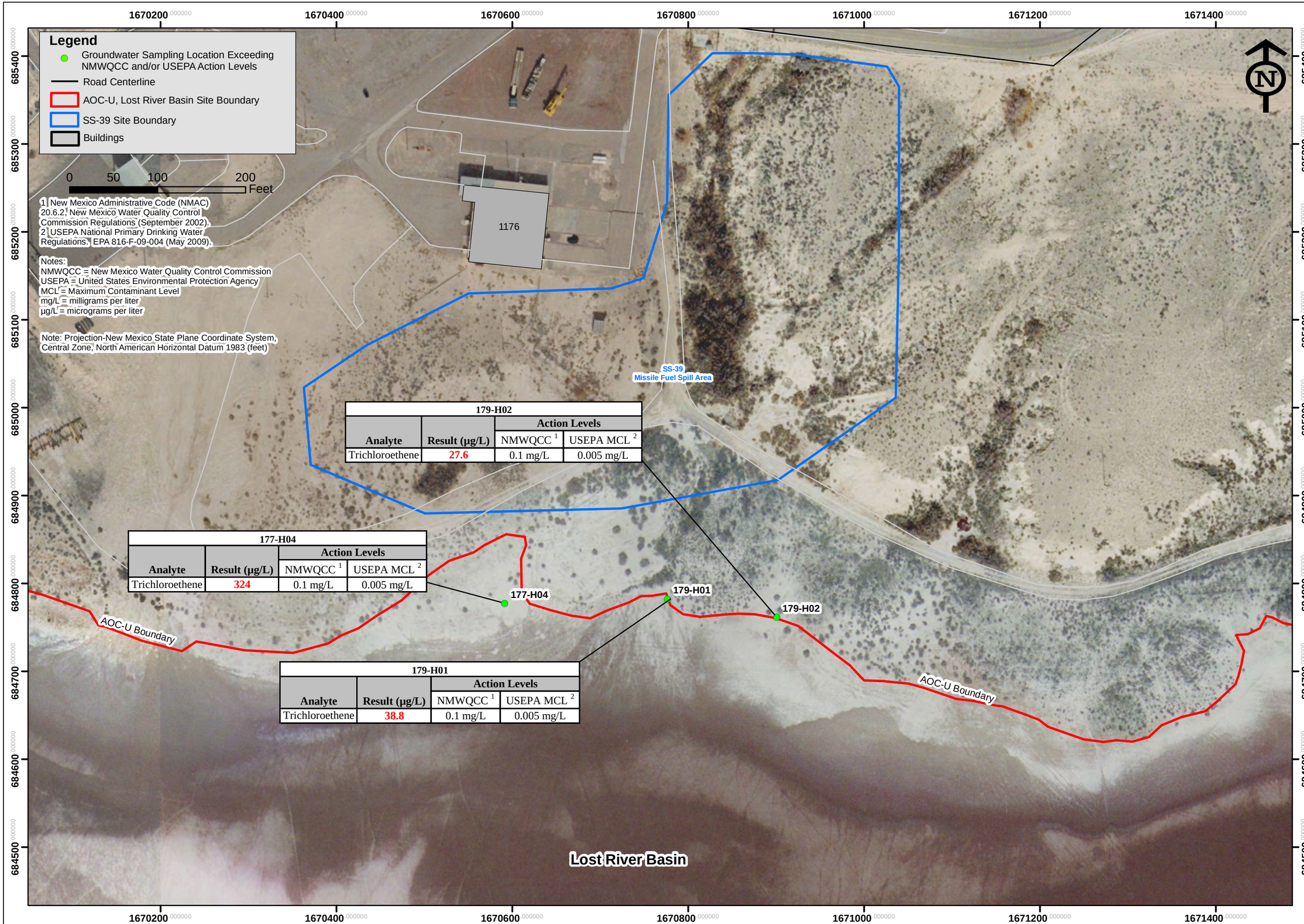
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-3

AOC-U Site Map Showing Upgradient SWMUs and AOC Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	1"=1500'	1/16/13	cm	Figure 2-3

NATIONVIEW



179-H02			
		Action Levels	
Analyte	Result (µg/L)	NMWQCC [1]	USEPA MCL [2]
Trichloroethene	27.6	0.1 mg/L	0.005 mg/L

177-H04			
		Action Levels	
Analyte	Result (µg/L)	NMWQCC [1]	USEPA MCL [2]
Trichloroethene	324	0.1 mg/L	0.005 mg/L

179-H01			
		Action Levels	
Analyte	Result (µg/L)	NMWQCC [1]	USEPA MCL [2]
Trichloroethene	38.8	0.1 mg/L	0.005 mg/L

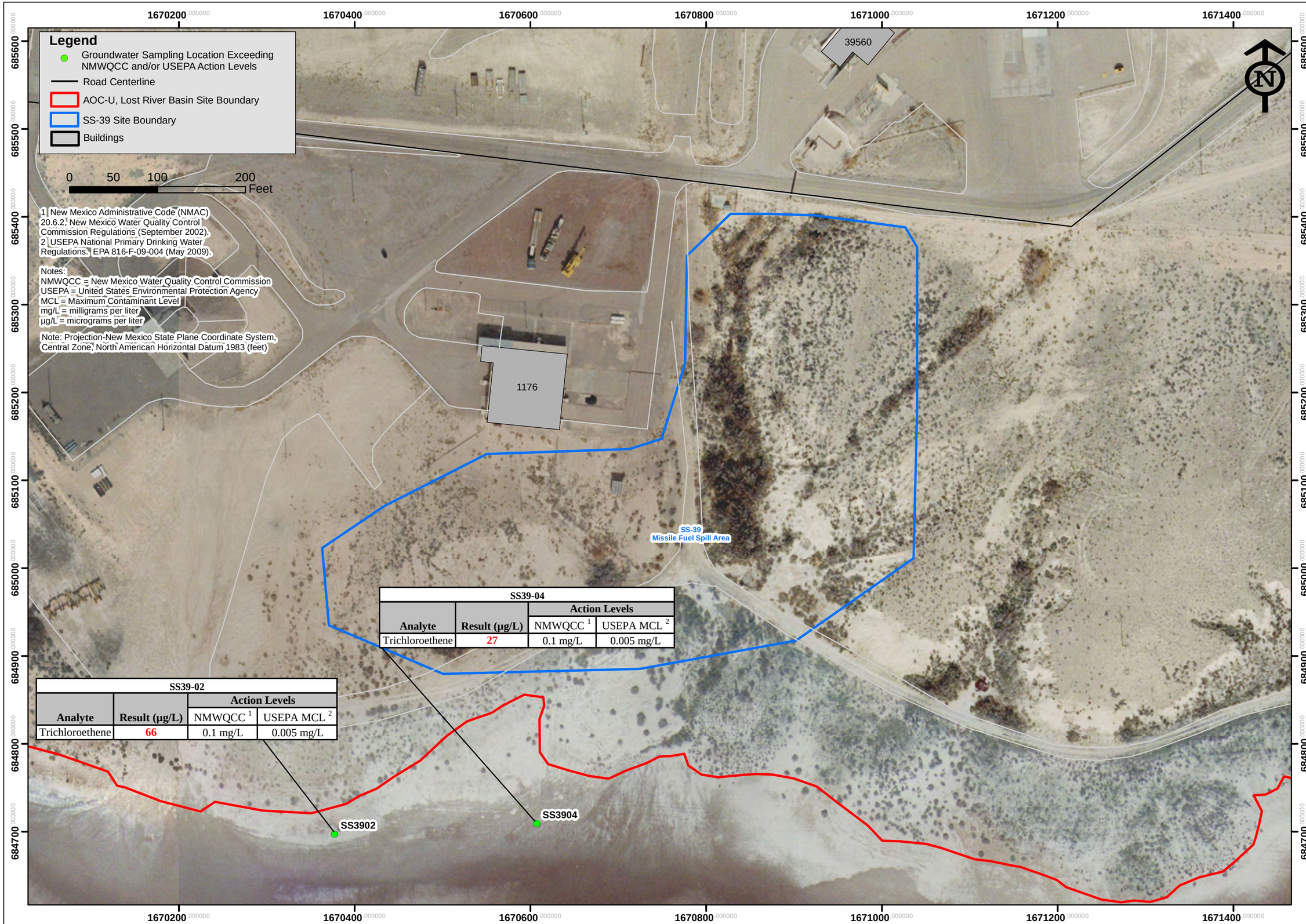
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-4

1993 Groundwater Analytical Results Above NMWQCC and/or USEPA Action Levels (Radian 1993)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	1"=100'	1/16/13	cm	Figure 2-4

NATIONVIEW



SS39-04

Analyte	Result (µg/L)	Action Levels	
		NMWQCC [1]	USEPA MCL [2]
Trichloroethene	27	0.1 mg/L	0.005 mg/L

SS39-02

Analyte	Result (µg/L)	Action Levels	
		NMWQCC [1]	USEPA MCL [2]
Trichloroethene	66	0.1 mg/L	0.005 mg/L

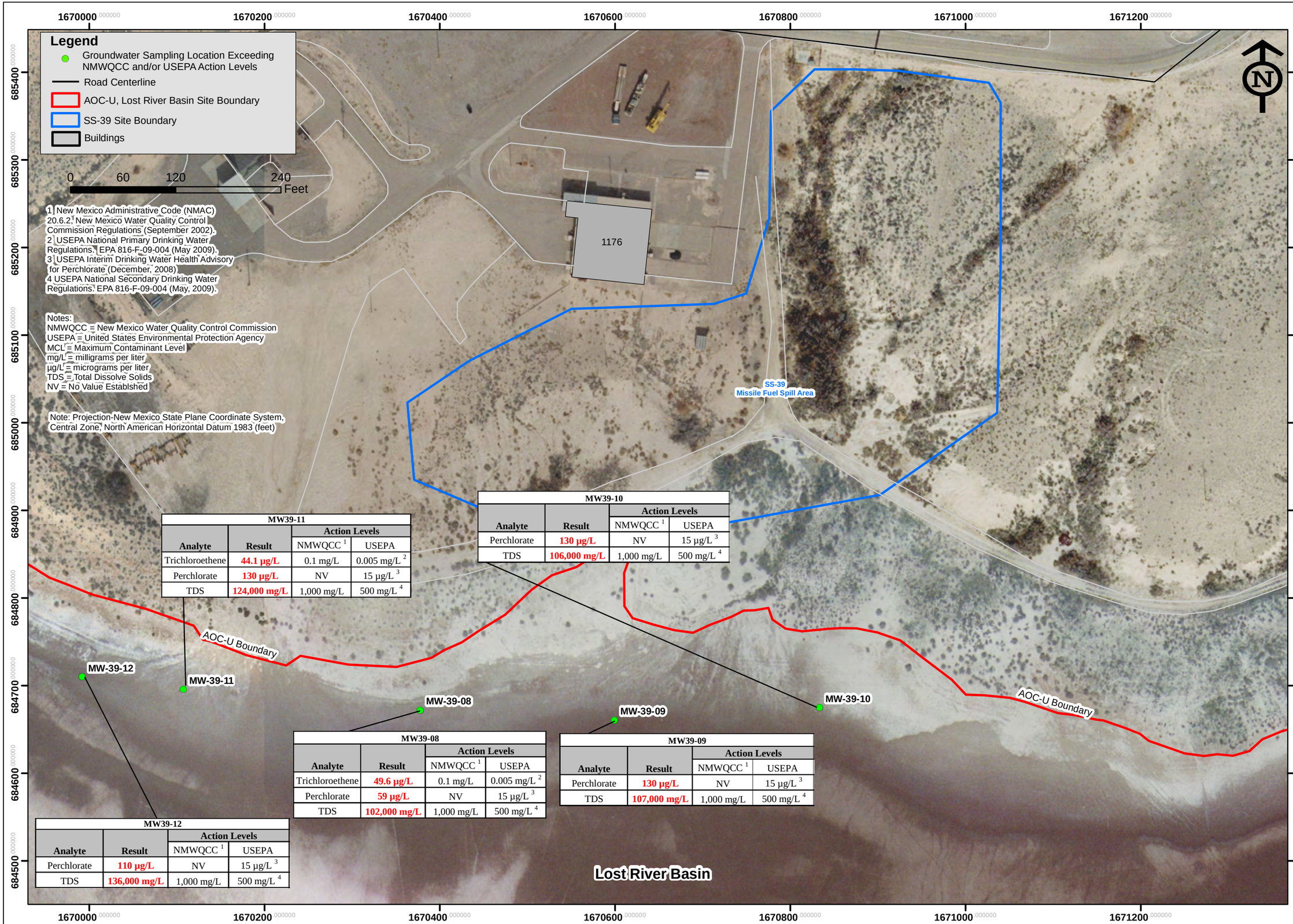
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-5

1998 Groundwater Analytical Results Above NMWQCC and/or USEPA Action Levels (Groundwater Technology Government Services Inc., 1998)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	1"=100'	1/16/13	cm	Figure 2-5

NATIONVIEW



MW39-11			
		Action Levels	
Analyte	Result	NMWQCC [1]	USEPA
Trichloroethene	44.1 µg/L	0.1 mg/L	0.005 mg/L [2]
Perchlorate	130 µg/L	NV	15 µg/L [3]
TDS	124,000 mg/L	1,000 mg/L	500 mg/L [4]

MW39-10			
		Action Levels	
Analyte	Result	NMWQCC [1]	USEPA
Perchlorate	130 µg/L	NV	15 µg/L [3]
TDS	106,000 mg/L	1,000 mg/L	500 mg/L [4]

MW39-08			
		Action Levels	
Analyte	Result	NMWQCC [1]	USEPA
Trichloroethene	49.6 µg/L	0.1 mg/L	0.005 mg/L [2]
Perchlorate	59 µg/L	NV	15 µg/L [3]
TDS	102,000 mg/L	1,000 mg/L	500 mg/L [4]

MW39-09			
		Action Levels	
Analyte	Result	NMWQCC [1]	USEPA
Perchlorate	130 µg/L	NV	15 µg/L [3]
TDS	107,000 mg/L	1,000 mg/L	500 mg/L [4]

MW39-12			
		Action Levels	
Analyte	Result	NMWQCC [1]	USEPA
Perchlorate	110 µg/L	NV	15 µg/L [3]
TDS	136,000 mg/L	1,000 mg/L	500 mg/L [4]

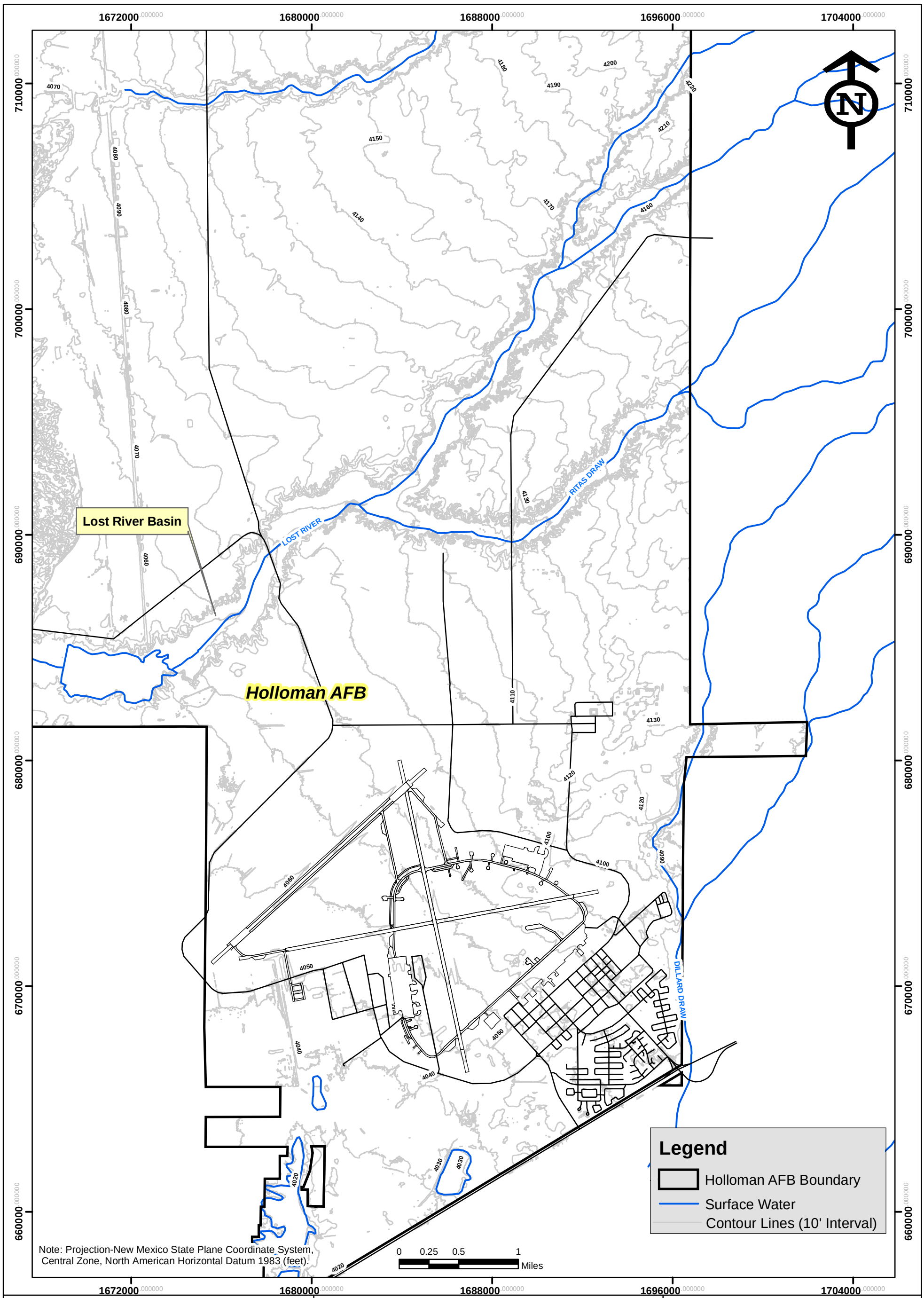
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 2-6

2006 Groundwater Analytical Results Above NMWQCC and/or USEPA Action Levels (HydroGeoLogic Inc., 1998)

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	1"=100'	1/16/13	cm	Figure 2-6

NATIONVIEW



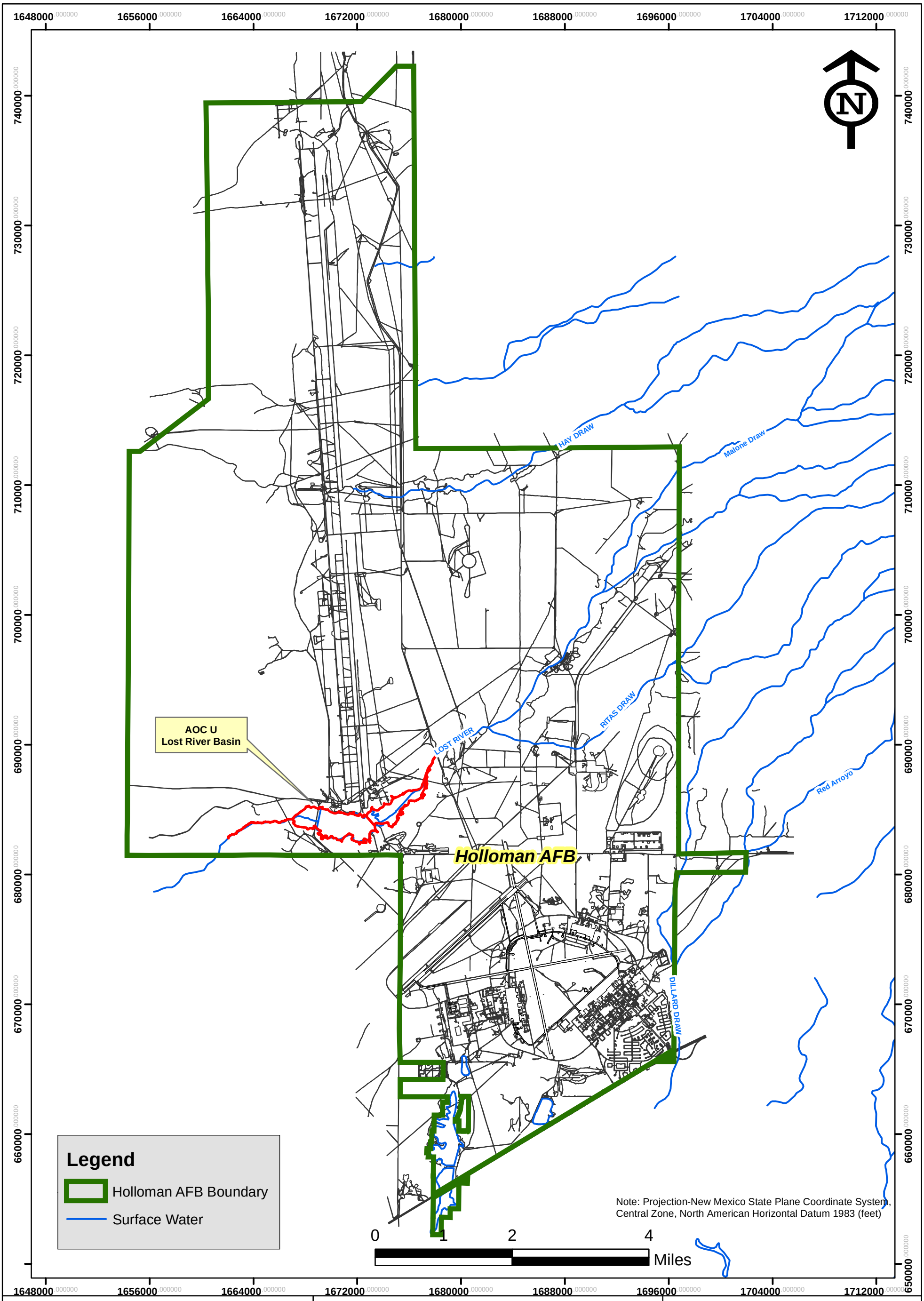
NATIONVIEW

Topographic Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090006	1"=4000'	8/5/11	DRAWING NO: Figure 3-1

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-1



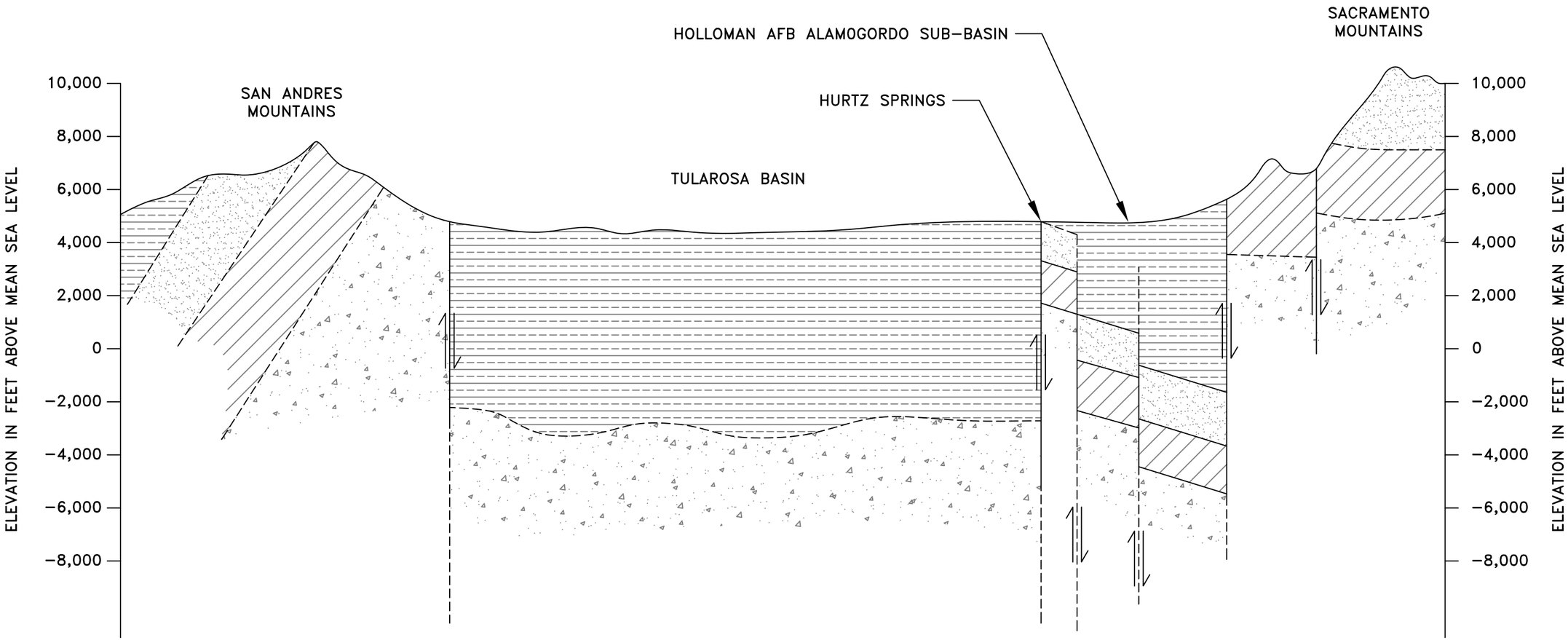
NATIONVIEW

Surface Drainages Holloman AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	Shown	8/5/11	cm
			DRAWING NO: fig_3-2

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-2



LEGEND:

- CENOZOIC ALLUVIUM AND LAKE DEPOSITS
- SEDIMENTARY ROCK OF PERMIAN AGE
- SEDIMENTARY ROCKS OF CAMBRIAN, ORDOVICIAN, SILURIAN, DEVONIAN, MISSISSIPPIAN AND PENNSYLVANIAN AGE
- INTRUSIVE ROCKS OF TERTIARY, CRETACEOUS OR PRECAMBRIAN AGE
- FAULT, ARROWS INDICATE RELATIVE MOVEMENT

0 5 10
SCALE IN MILES:

NOTES:
This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

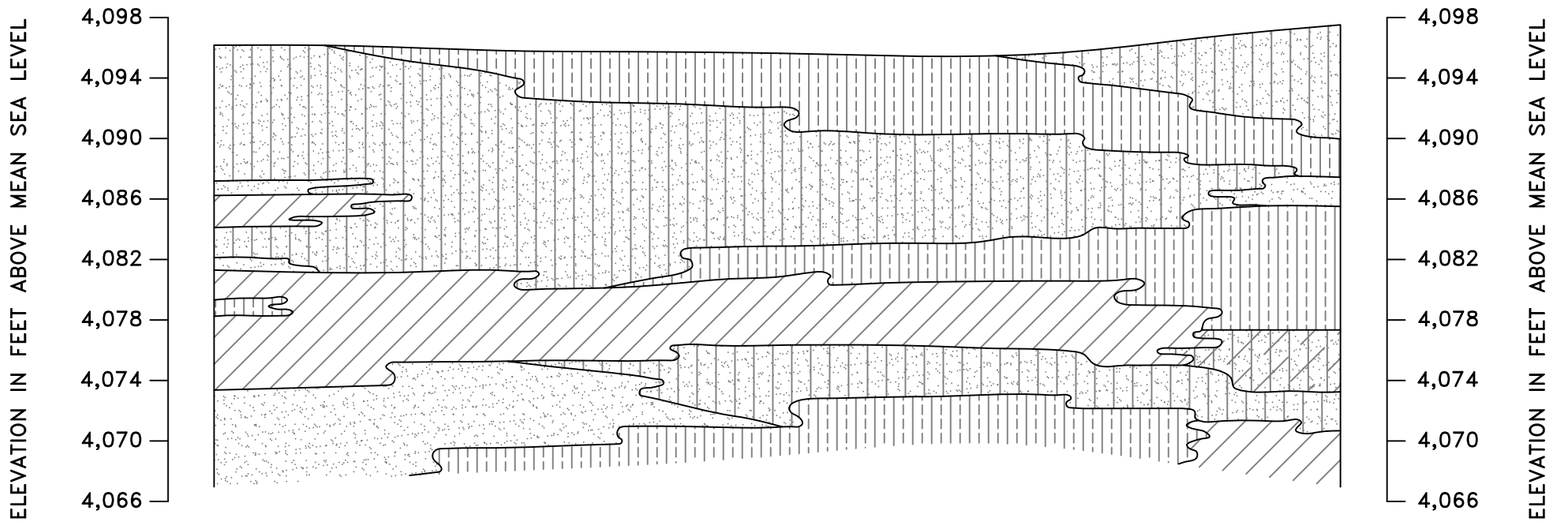
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-3

GENERALIZED GEOLOGIC CROSS SECTION OF THE TULAROSA BASIN

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	SHOWN	8/08/11	MRM	Figure 3-3

NATIONVIEW



LEGEND:

- CL AND CH – CLAY
- ML AND MH – SILT
- SM – SILTY SAND
- SM–SC – SILTY, CLAYEY SAND
- SP – SAND

NOTES:

This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0' 100' 200'

SCALE IN FEET:

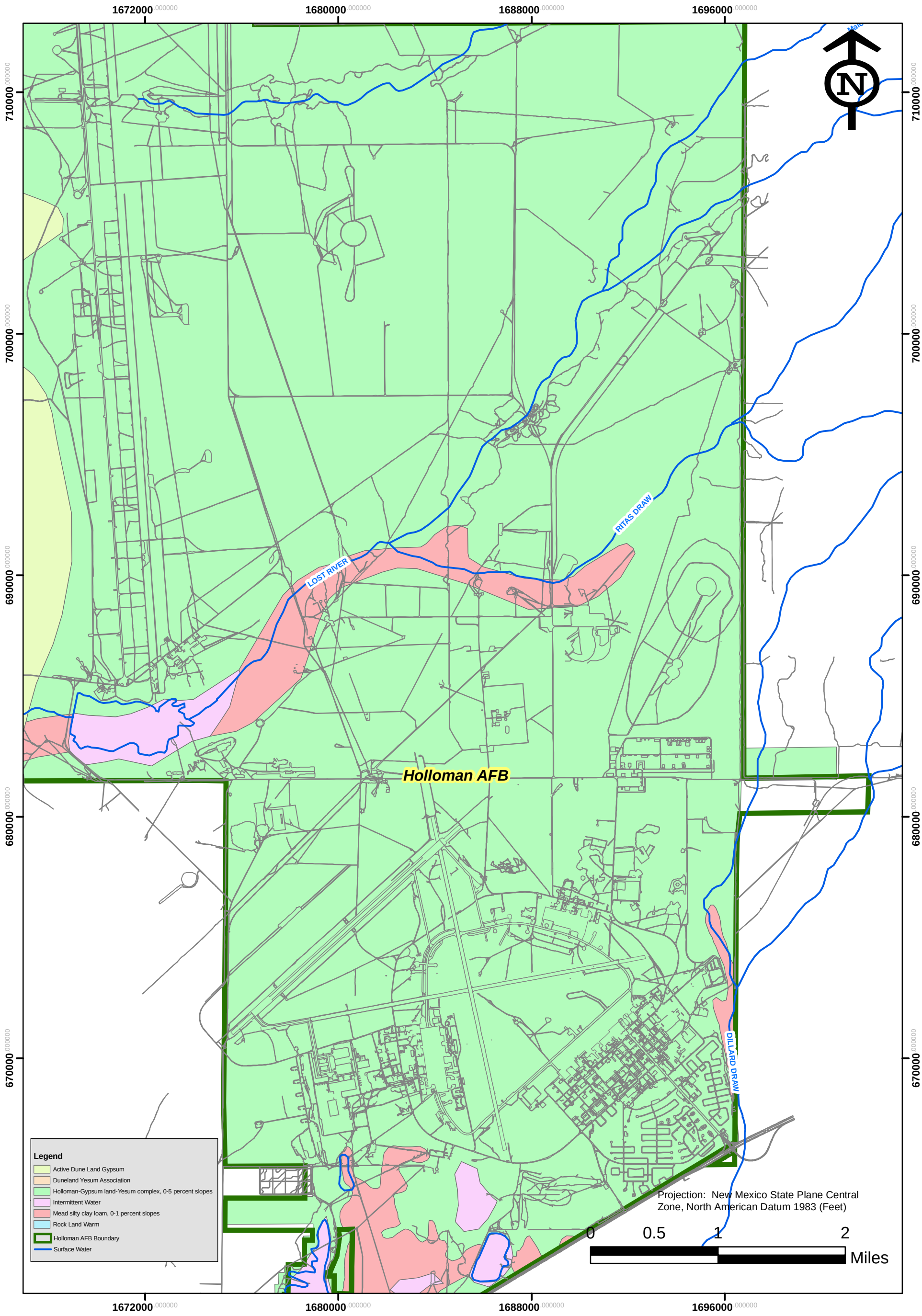
AOC–U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3–4

GENERALIZED NEAR–SURFACE GEOLOGIC CROSS SECTION FOR HOLLOMAN AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	SHOWN	8/08/11	MRM	Figure 3–4

NATIONVIEW



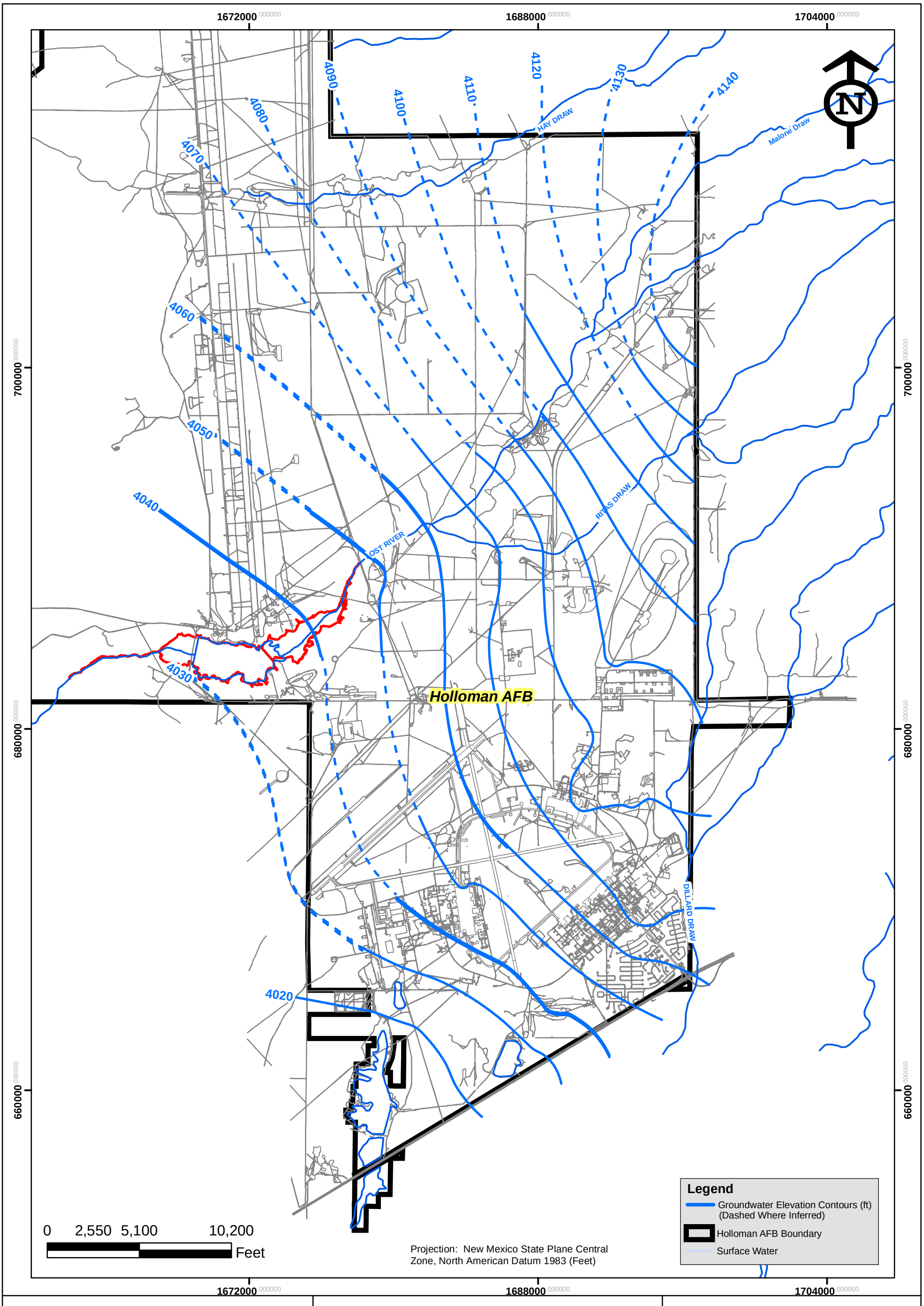
NATIONVIEW

Soil Map
Holloman AFB, New Mexico

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	Shown	8/5/11	cm
			DRAWING NO: soils_3-5

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-5



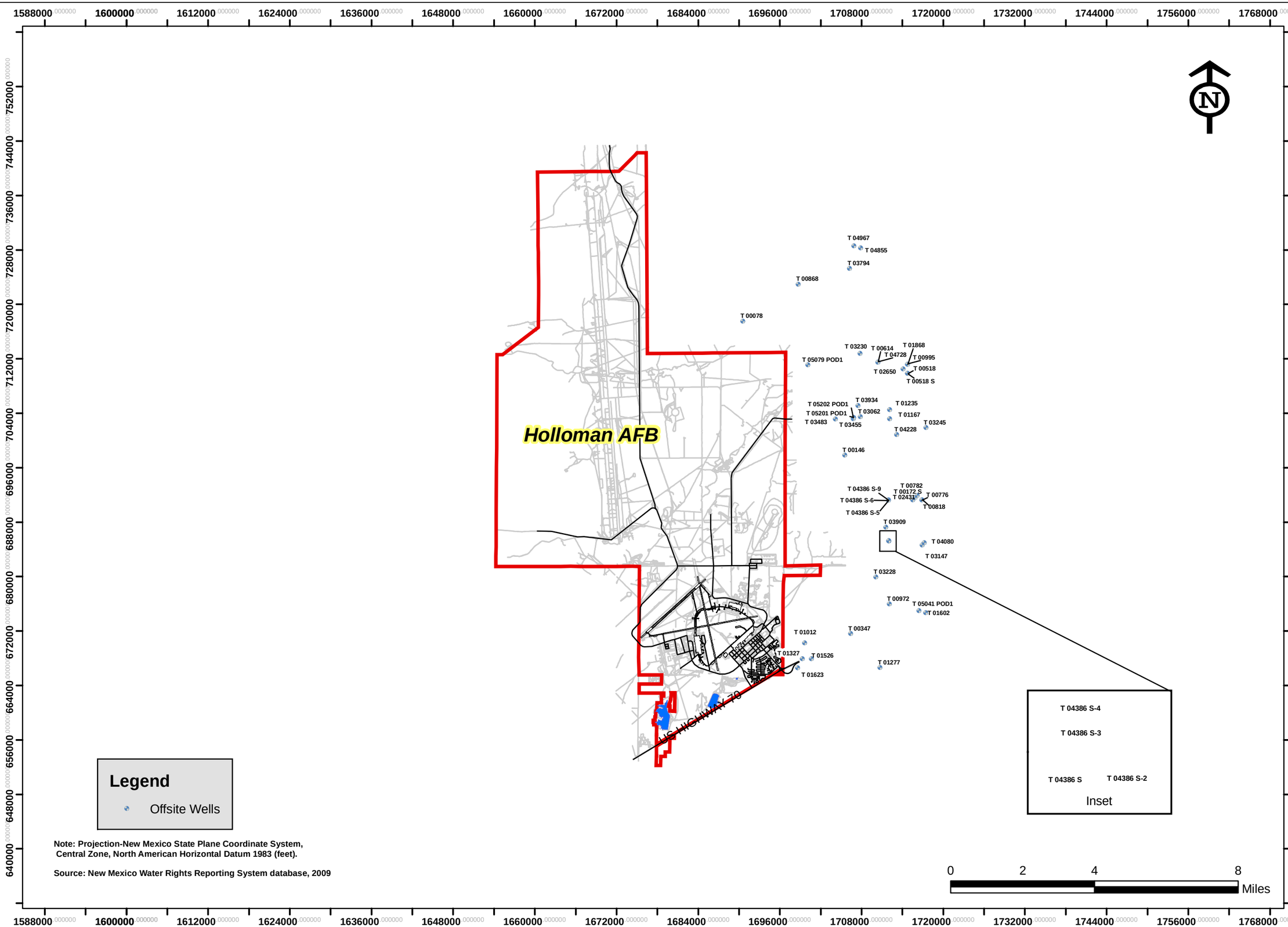
NATIONVIEW

Groundwater Contour Map
Holloman AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1"=5000'	9/1/11	cm
			DRAWING NO: gwcontour_3-6

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-6



Note: Projection-New Mexico State Plane Coordinate System, Central Zone, North American Horizontal Datum 1983 (feet).

Source: New Mexico Water Rights Reporting System database, 2009

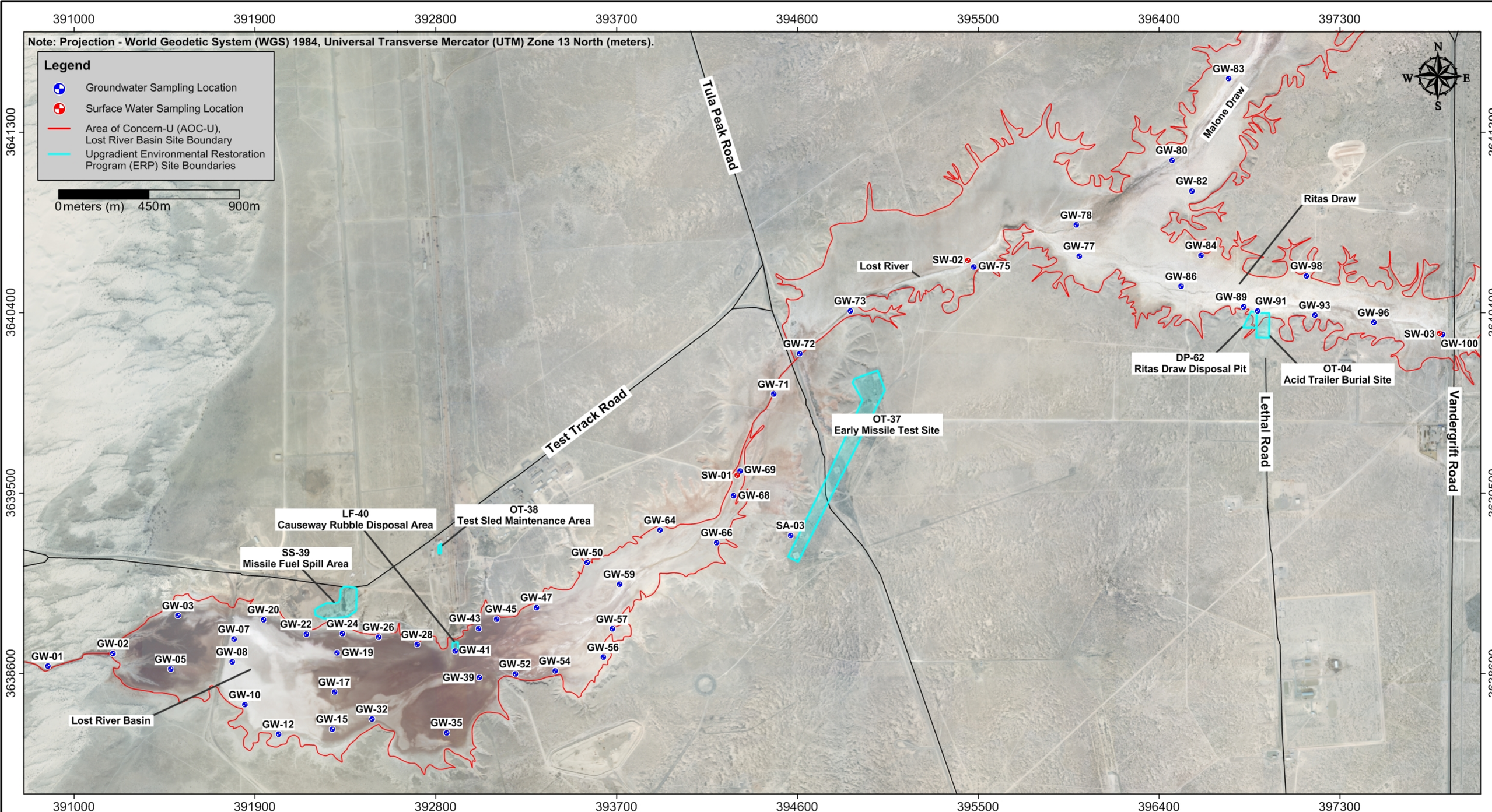
AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 3-7

Groundwater Wells Located Within a 4-Mile Radius of Holloman AFB

PROJECT NO.	SCALE	DATE	DRAWN BY:	DRAWING NO:
8090006	Shown	8/5/11	cm	Figure 3-7

NATIONVIEW



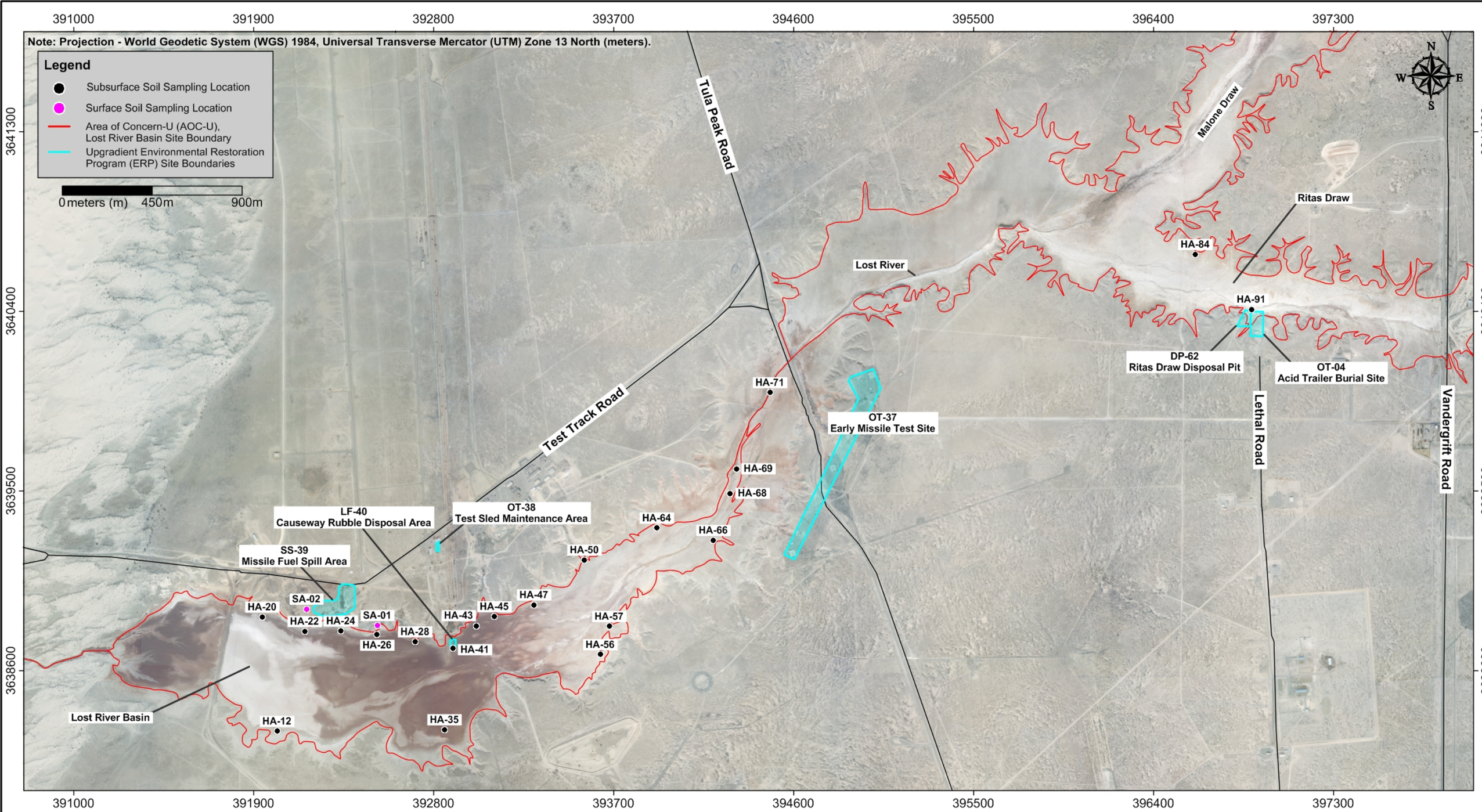
NATIONVIEW

AOC-U RFI
Groundwater and Surface Water Sampling Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 450 meters	12/14/2012	dtm
			DRAWING NO: Fig. 5-1

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 5-1



NATIONVIEW

AOC-U RFI
Subsurface and Surface Soil Sampling Location Map

PROJECT NO.	SCALE	DATE	DRAWN BY: dtm
8090006	1" = 450 meters	12/14/2012	DRAWING NO: Fig. 5-2

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 5-2

Note: Projection - World Geodetic System (WGS) 1984, Universal Transverse Mercator (UTM) Zone 13 North (meters).

390600 390900 391200 391500 391800 392100 392400 392700

3639200 3638900 3638600 3638300 3638000

AOCU-GW07	
Parameter	Result (mg/L)
TDS	243,000
Antimony	0.14 B
Chromium	0.065 B
Manganese	0.22 B

AOCU-GW03	
Parameter	Result (mg/L)
TDS	215,000
Antimony	0.13 B
Chromium	0.072 B
Manganese	0.41

AOCU-GW20	
Parameter	Result (mg/L)
TDS	165,000
Antimony	0.097 B
Arsenic	0.047 B
Manganese	1.04

AOCU-GW22	
Parameter	Result (mg/L)
TDS	136,000
Antimony	0.092 B
Arsenic	0.058 B
Manganese	0.94

AOCU-GW19	
Parameter	Result (mg/L)
TDS	183,000
Antimony	0.13 B
Chromium	0.057 B
Manganese	1.06

AOCU-GW24 [1]	
Parameter	Result (mg/L)
TDS	121,000 / 123,000
Antimony	0.056 B / 0.061 B
Arsenic	0.098 B / 0.049 B
Manganese	0.34 / 0.32

AOCU-GW26	
Parameter	Result (mg/L)
TDS	95,000
Antimony	0.053 B
Arsenic	0.052 B
Manganese	1.02

AOCU-GW02	
Parameter	Result (mg/L)
TDS	165,000
Antimony	0.061 B
Manganese	0.24

AOCU-GW01	
Parameter	Result (mg/L)
TDS	43,800
Antimony	0.052 B
Arsenic	0.024 B
Manganese	0.71

AOCU-GW05	
Parameter	Result (mg/L)
TDS	137,000
Antimony	0.058 B
Manganese	0.6

AOCU-GW08	
Parameter	Result (mg/L)
TDS	234,000
Antimony	0.17 B
Arsenic	0.13 B
Chromium	0.059 B
Manganese	0.43

AOCU-GW10	
Parameter	Result (mg/L)
TDS	157,000
Antimony	0.081 B
Arsenic	0.052 B
Manganese	1.19

SS-39

Causeway

Lost River Basin

Legend

- Groundwater Sampling Location
- Area of Concern-U (AOC-U), Lost River Basin Site Boundary
- Upgradient Environmental Restoration Program (ERP) Site Boundaries

mg/L = Milligrams per liter
TDS = Total Dissolved Solids
B = Laboratory Qualifier (Indicates the result is between the Reporting Detection Limit and the Method Detection Limit)
USEPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMWQCC = New Mexico Water Quality Control Commission
[1] Duplicate sample collected
Red analytical results exceed the USEPA MCLs and/or NMWQCC Groundwater Standards

0 meters (m) 150m 300m

AOCU-GW12	
Parameter	Result (mg/L)
TDS	114,000
Antimony	0.076 B
Manganese	0.62

AOCU-GW17	
Parameter	Result (mg/L)
TDS	194,000
Antimony	0.14 B
Chromium	0.055 B
Manganese	0.7

AOCU-GW15	
Parameter	Result (mg/L)
TDS	54,000
Antimony	0.05 B
Manganese	1.18

AOCU-GW32	
Parameter	Result (mg/L)
TDS	132,000
Antimony	0.073 B
Arsenic	0.032 B
Manganese	4.1

AOCU-GW28	
Parameter	Result (mg/L)
TDS	86,500
Antimony	0.032 B
Arsenic	0.053
Manganese	1.31

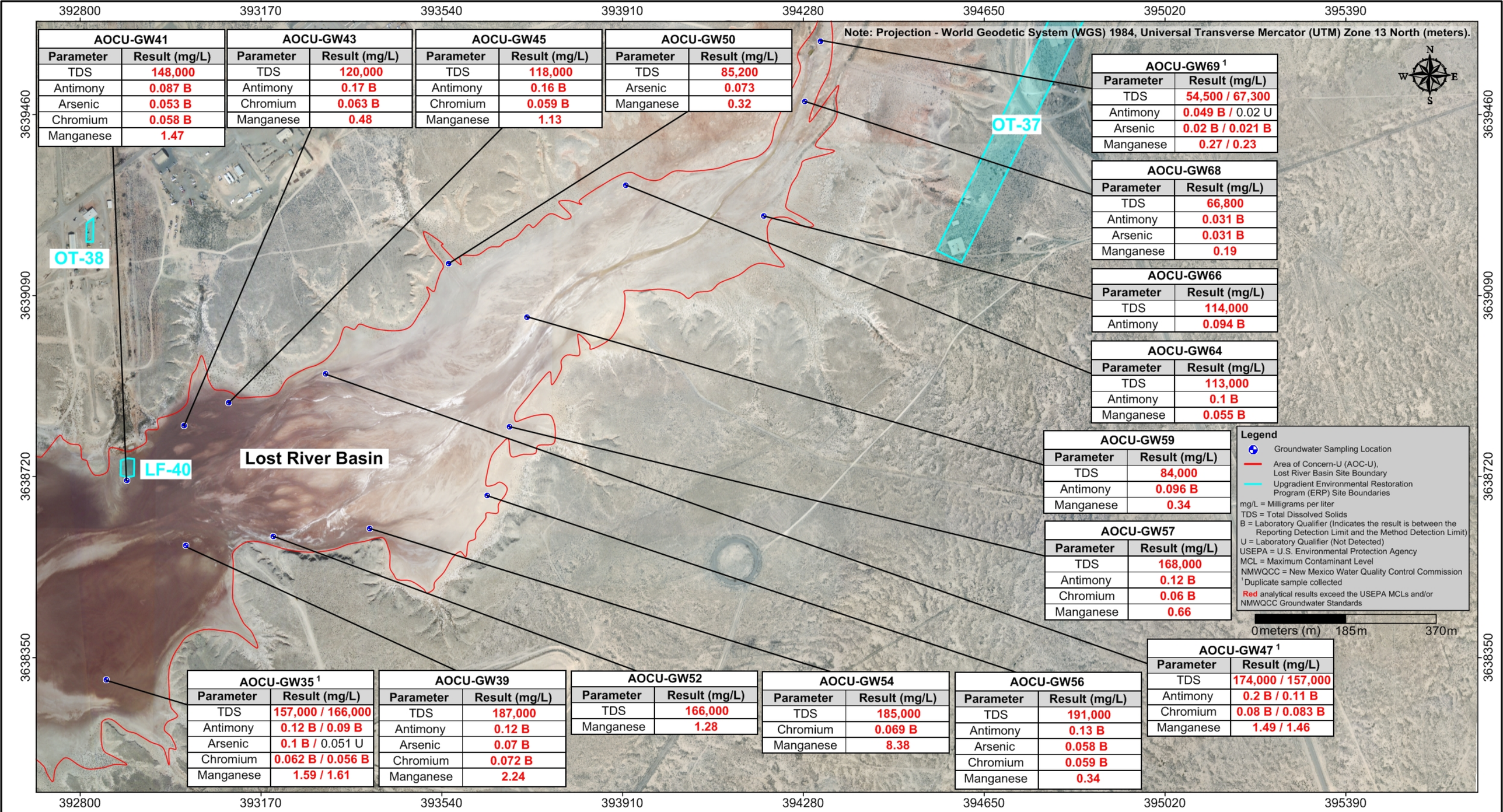
NATIONVIEW

AOC-U (Western Lost River Basin)
RFI TAL Metals and TDS Groundwater Analytical Results Above Action Levels (February/ March 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 150 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-1

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-1



AOCU-GW41

Parameter	Result (mg/L)
TDS	148,000
Antimony	0.087 B
Arsenic	0.053 B
Chromium	0.058 B
Manganese	1.47

AOCU-GW43

Parameter	Result (mg/L)
TDS	120,000
Antimony	0.17 B
Chromium	0.063 B
Manganese	0.48

AOCU-GW45

Parameter	Result (mg/L)
TDS	118,000
Antimony	0.16 B
Chromium	0.059 B
Manganese	1.13

AOCU-GW50

Parameter	Result (mg/L)
TDS	85,200
Arsenic	0.073
Manganese	0.32

AOCU-GW69 [1]

Parameter	Result (mg/L)
TDS	54,500 / 67,300
Antimony	0.049 B / 0.02 U
Arsenic	0.02 B / 0.021 B
Manganese	0.27 / 0.23

AOCU-GW68

Parameter	Result (mg/L)
TDS	66,800
Antimony	0.031 B
Arsenic	0.031 B
Manganese	0.19

AOCU-GW66

Parameter	Result (mg/L)
TDS	114,000
Antimony	0.094 B

AOCU-GW64

Parameter	Result (mg/L)
TDS	113,000
Antimony	0.1 B
Manganese	0.055 B

AOCU-GW59

Parameter	Result (mg/L)
TDS	84,000
Antimony	0.096 B
Manganese	0.34

AOCU-GW57

Parameter	Result (mg/L)
TDS	168,000
Antimony	0.12 B
Chromium	0.06 B
Manganese	0.66

AOCU-GW47 [1]

Parameter	Result (mg/L)
TDS	174,000 / 157,000
Antimony	0.2 B / 0.11 B
Chromium	0.08 B / 0.083 B
Manganese	1.49 / 1.46

AOCU-GW35 [1]

Parameter	Result (mg/L)
TDS	157,000 / 166,000
Antimony	0.12 B / 0.09 B
Arsenic	0.1 B / 0.051 U
Chromium	0.062 B / 0.056 B
Manganese	1.59 / 1.61

AOCU-GW39

Parameter	Result (mg/L)
TDS	187,000
Antimony	0.12 B
Arsenic	0.07 B
Chromium	0.072 B
Manganese	2.24

AOCU-GW52

Parameter	Result (mg/L)
TDS	166,000
Manganese	1.28

AOCU-GW54

Parameter	Result (mg/L)
TDS	185,000
Chromium	0.069 B
Manganese	8.38

AOCU-GW56

Parameter	Result (mg/L)
TDS	191,000
Antimony	0.13 B
Arsenic	0.058 B
Chromium	0.059 B
Manganese	0.34

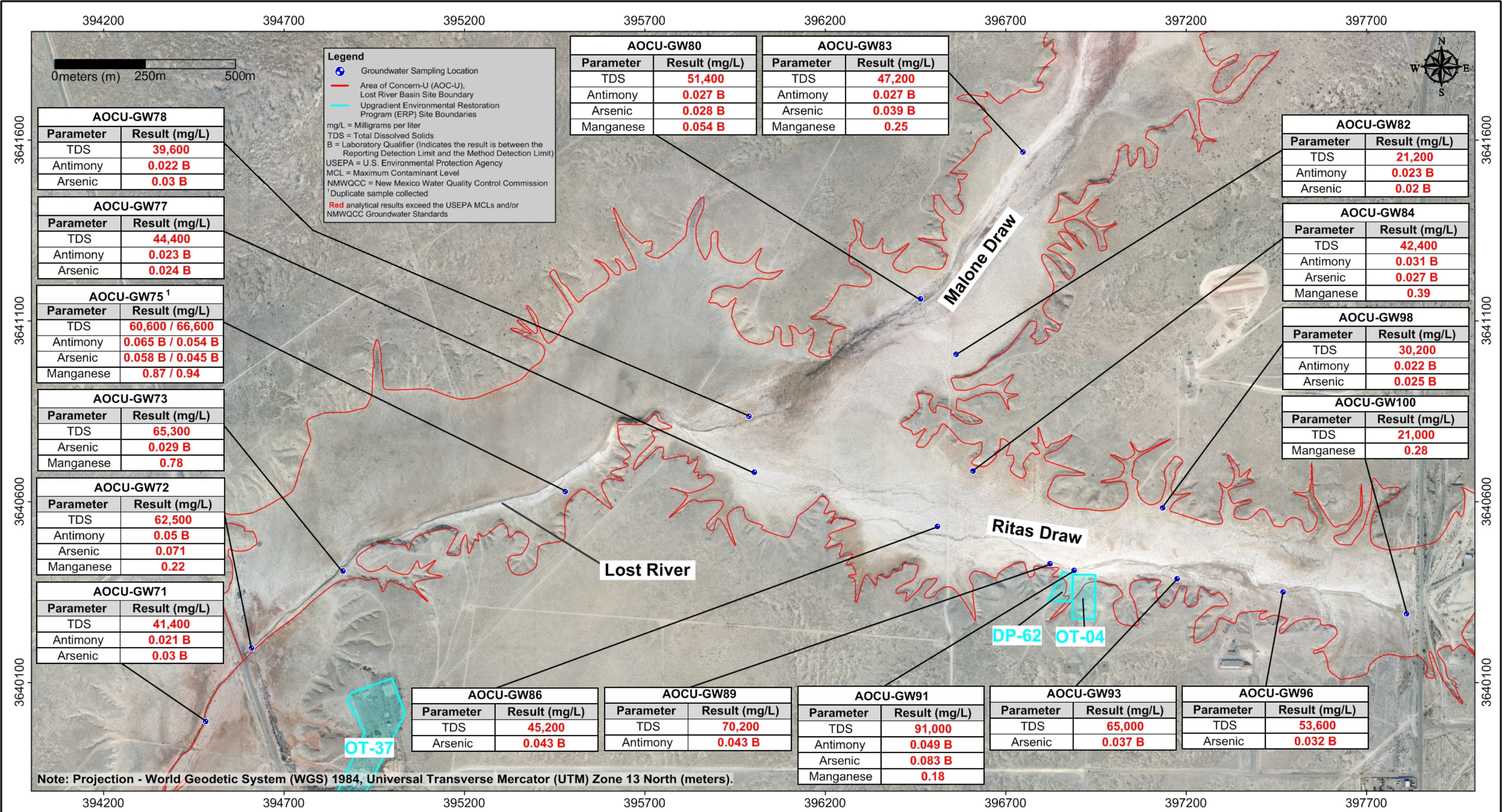
NATIONVIEW

AOC-U (Central Lost River Basin)
RFI TAL Metals and TDS Groundwater Analytical Results Above Action Levels (February/ March 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 185 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-2

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-2



AOCU-GW80	
Parameter	Result (mg/L)
TDS	51,400
Antimony	0.027 B
Arsenic	0.028 B
Manganese	0.054 B

AOCU-GW83	
Parameter	Result (mg/L)
TDS	47,200
Antimony	0.027 B
Arsenic	0.039 B
Manganese	0.25

AOCU-GW78	
Parameter	Result (mg/L)
TDS	39,600
Antimony	0.022 B
Arsenic	0.03 B

AOCU-GW77	
Parameter	Result (mg/L)
TDS	44,400
Antimony	0.023 B
Arsenic	0.024 B

AOCU-GW75 [1]	
Parameter	Result (mg/L)
TDS	60,600 / 66,600
Antimony	0.065 B / 0.054 B
Arsenic	0.058 B / 0.045 B
Manganese	0.87 / 0.94

AOCU-GW73	
Parameter	Result (mg/L)
TDS	65,300
Arsenic	0.029 B
Manganese	0.78

AOCU-GW72	
Parameter	Result (mg/L)
TDS	62,500
Antimony	0.05 B
Arsenic	0.071
Manganese	0.22

AOCU-GW71	
Parameter	Result (mg/L)
TDS	41,400
Antimony	0.021 B
Arsenic	0.03 B

AOCU-GW82	
Parameter	Result (mg/L)
TDS	21,200
Antimony	0.023 B
Arsenic	0.02 B

AOCU-GW84	
Parameter	Result (mg/L)
TDS	42,400
Antimony	0.031 B
Arsenic	0.027 B
Manganese	0.39

AOCU-GW98	
Parameter	Result (mg/L)
TDS	30,200
Antimony	0.022 B
Arsenic	0.025 B

AOCU-GW100	
Parameter	Result (mg/L)
TDS	21,000
Manganese	0.28

AOCU-GW86	
Parameter	Result (mg/L)
TDS	45,200
Arsenic	0.043 B

AOCU-GW89	
Parameter	Result (mg/L)
TDS	70,200
Antimony	0.043 B

AOCU-GW91	
Parameter	Result (mg/L)
TDS	91,000
Antimony	0.049 B
Arsenic	0.083 B
Manganese	0.18

AOCU-GW93	
Parameter	Result (mg/L)
TDS	65,000
Arsenic	0.037 B

AOCU-GW96	
Parameter	Result (mg/L)
TDS	53,600
Arsenic	0.032 B

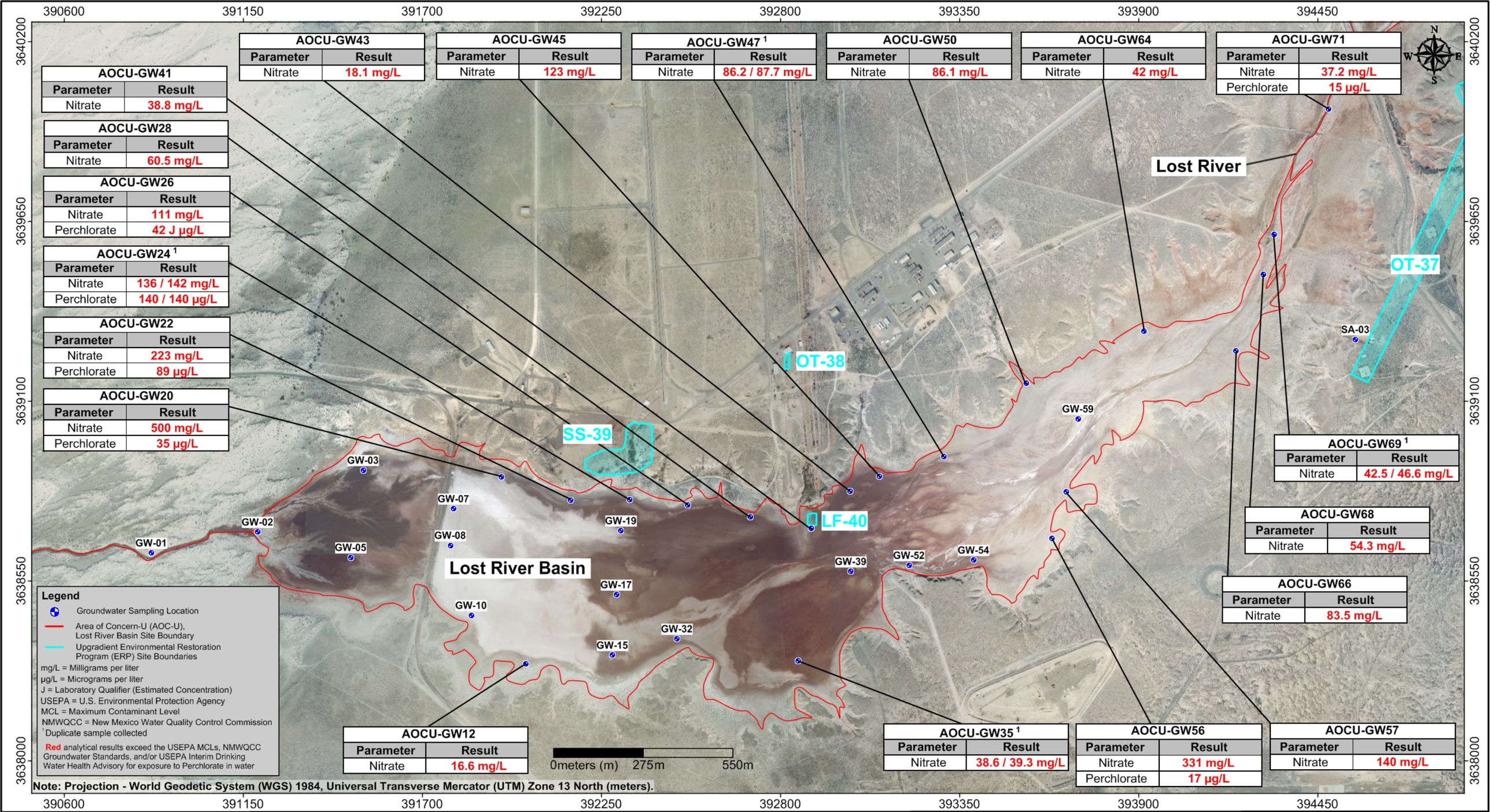
NATIONVIEW

AOC-U (Eastern Lost River Basin)
RFI TAL Metals and TDS Groundwater Analytical Results Above Action Levels (February/ March 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 250 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-3

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-3



NATIONVIEW

AOC-U (Western and Central Lost River Basin)
RFI Nitrate and Perchlorate Groundwater Analytical Results Above Action Levels (February/ March and July, 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 275 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-4

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-4

Note: Projection - World Geodetic System (WGS) 1984, Universal Transverse Mercator (UTM) Zone 13 North (meters).

Legend

- Groundwater Sampling Location
- Area of Concern-U (AOC-U), Lost River Basin Site Boundary
- Upgradient Environmental Restoration Program (ERP) Site Boundaries

mg/L = Milligrams per liter
µg/L = Micrograms per liter
USEPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMWQCC = New Mexico Water Quality Control Commission
Red analytical results exceed the USEPA MCLs, NMWQCC Groundwater Standards, and/or USEPA Interim Drinking Water Health Advisory for exposure to Perchlorate in water

0meters (m) 275m 550m

Malone Draw
Lost River
Ritas Draw

GW-83, GW-80, GW-82, GW-78, GW-77, GW-75, GW-86, GW-98, GW-89, GW-93, GW-96, GW-100, GW-73, GW-72

DP-62, OT-04, OT-37

AOCU-GW84	
Parameter	Result
Nitrate	13.5 mg/L

AOCU-GW91	
Parameter	Result
Nitrate	605 mg/L
Perchlorate	42 µg/L

AOCU-GW91-R	
Parameter	Result
Nitrate	7.92 mg/L
Perchlorate	52.9 µg/L

394300 394850 395400 395950 396500 397050 397600 398150

3641650 3641100 3640550 3640000

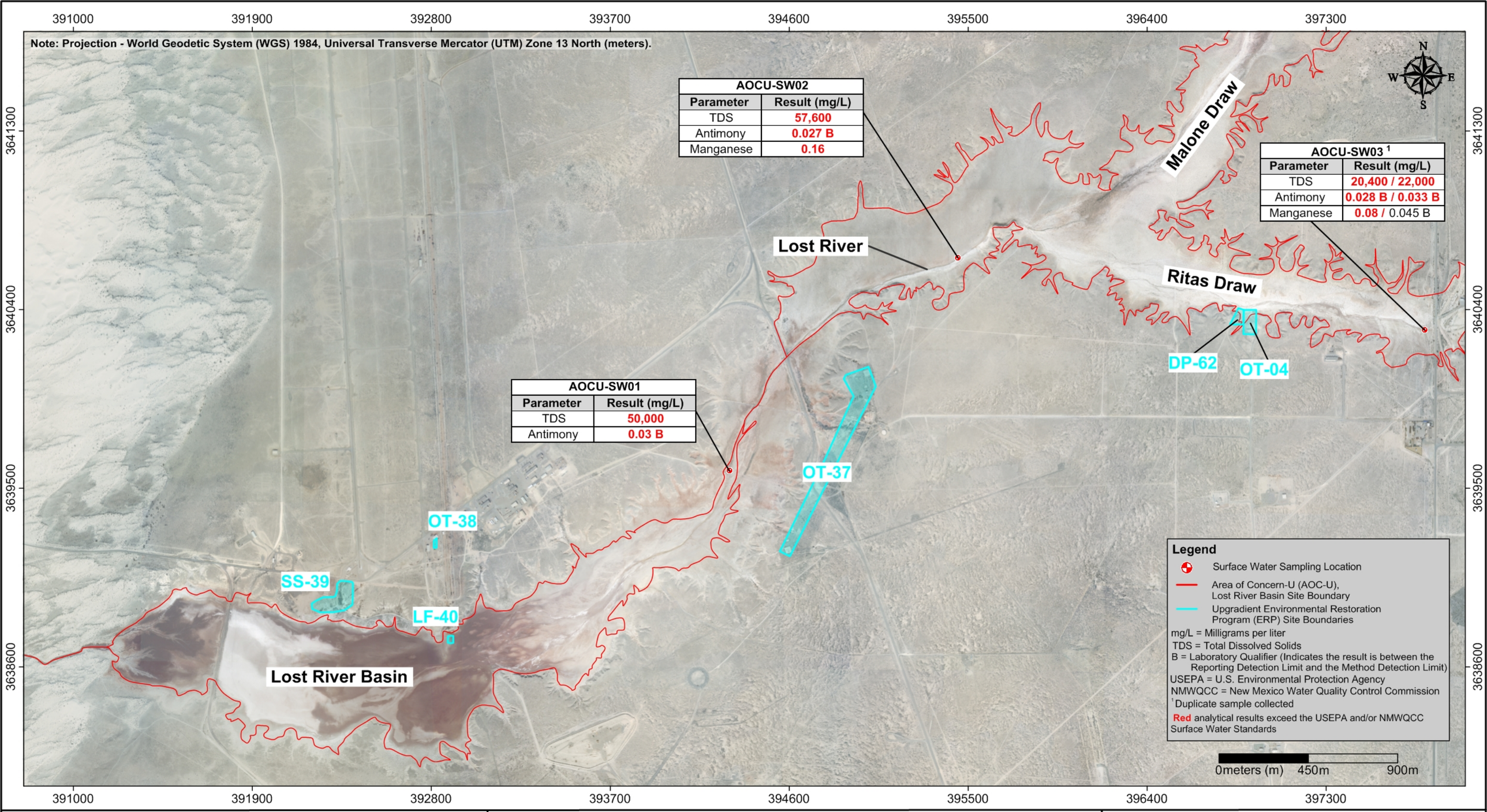
NATIONVIEW

AOC-U (Eastern Lost River Basin)
RFI Nitrate and Perchlorate Groundwater Analytical Results Above Action Levels (February/ March and July, 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 275 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-5

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-5



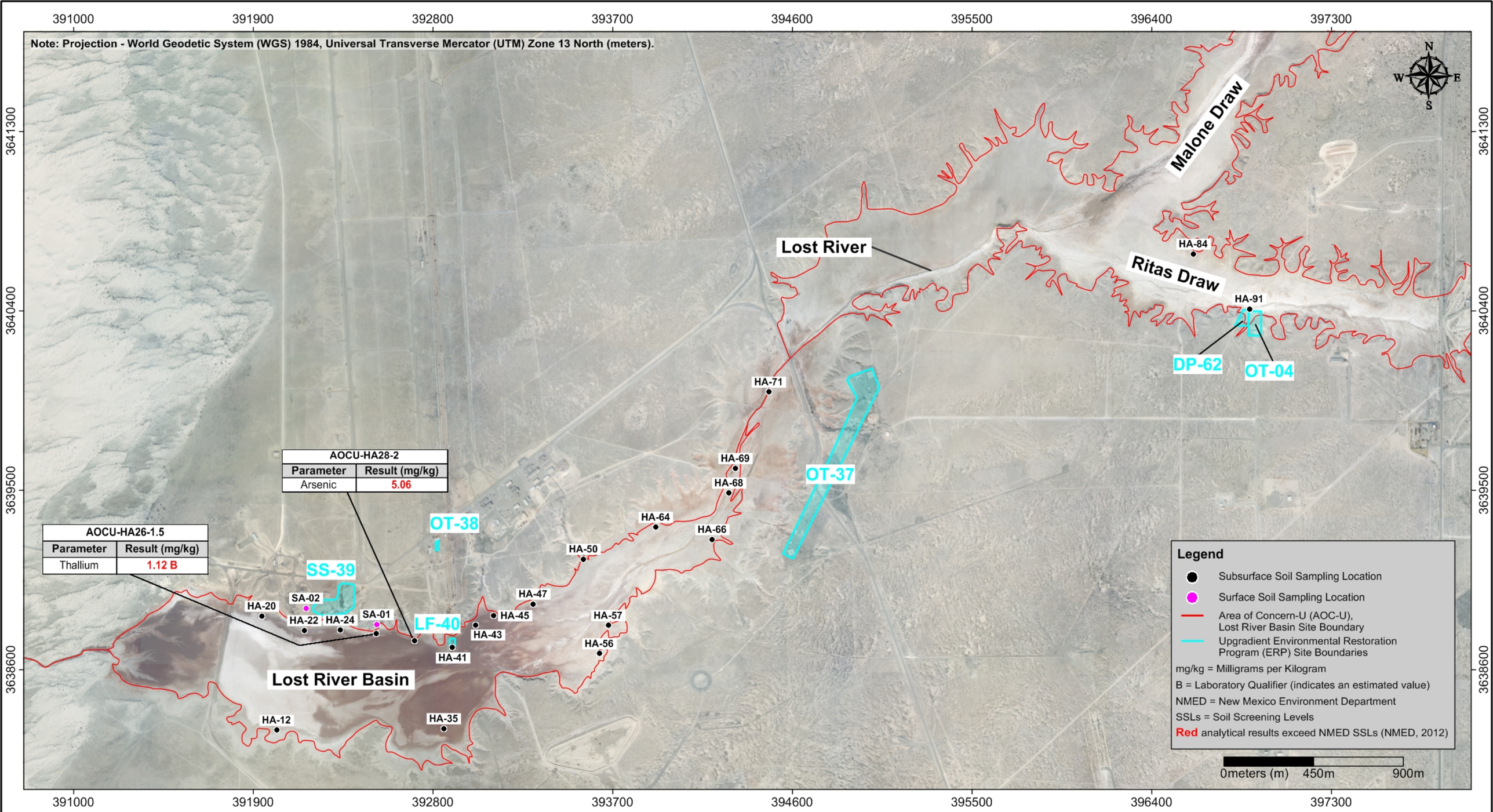
NATIONVIEW

AOC-U
RFI Surface Water Analytical Results Above Action Levels (March 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 450 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-6

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-6



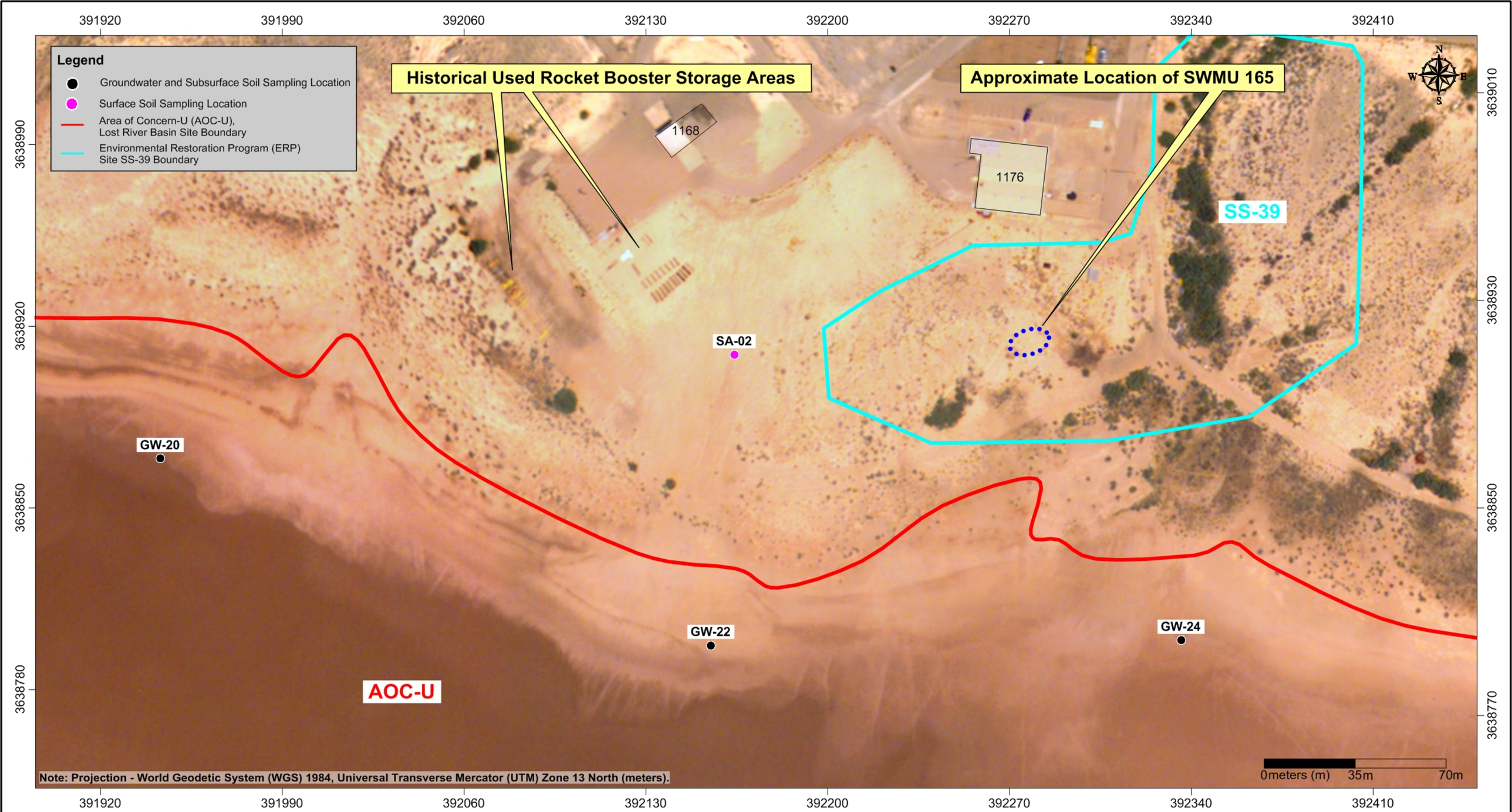
NATIONVIEW

AOC-U
RFI Subsurface and Surface Soil Analytical Results Above Action Levels (July 2011)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090006	1" = 450 meters	12/14/2012	dtm
			DRAWING NO: Fig. 7-7

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-7



NATIONVIEW

2002 Aerial Photo Showing Used Rocket Boosters and RFI Sample Locations Adjacent to Building 1168

PROJECT NO.	SCALE	DATE	DRAWN BY: dtm
8090006	1" = 35 meters	12/14/2012	DRAWING NO: Fig. 7-8

AOC-U, Lost River Basin
RCRA Facility Investigation Report
Holloman AFB, New Mexico

Figure 7-8

ATTACHMENT A

FIELD VARIANCE FORMS

VARIANCE FORM

Project/Phase Number: 809000601.010	**Site Name: AOC-U (Lost River Basin)**
Site Manager/Supervisor: James Moore/Dustin McNeil	**Location: Holloman Air Force Base**
Date Variance Takes Effect: February 8, 2011	**Date of Form Completion: February 8, 2011**

Original Requirement:

Accutest Laboratories in Orlando, Florida was selected to perform the soil, groundwater, and surface water chemical analyses (VOCs, SVOCs, TPH-GRO/DRO/ORO, TAL metals, perchlorate, and TDS (groundwater only) in the AOC-U (Lost River Basin) RFI Work Plan (NationView, 2009).

Requirement Reference:

NationView. July 2009. *Final RCRA Facility Investigation Work Plan AOC-U Lost River Basin, Holloman AFB*, *New Mexico*. Page 6-9, Section 6.3.2, 3rd ¶, (last sent.) and 4th ¶ (last sent.); Page 6-15, Section 6.4.2, 1st ¶ (first sent.); Page 6-16, 2nd ¶ (last sent.) and 3rd ¶ (first sent.); Appendix A (HAFB QAPP Addendum, Section 2, 1st ¶ (first sent.).

Variance:

Gulf Coast Analytical Laboratories, Inc (GCAL) in Baton Rouge, Louisiana has been selected to perform the soil and groundwater analyses for VOCs, SVOCs, TPH-GRO/DRO/ORO, TAL metals, perchlorate, nitrate (additional parameter see Attachment A-2, Nitrate Variance) and TDS (groundwater only). Revised the *Final RCRA Facility Investigation Work Plan AOC-U Lost River Basin, Holloman AFB,* where applicable (Sections 6.3.2, 6.4.2 and Appendix A, Section 2, QAPP Addendum).

Reason for Variance:

GCAL is certified by the National Environmental Laboratory Accreditation Conference (NELAC) and validated by the USACE and has extensive experience in working on USACE projects. Furthermore, GCAL can meet the project DQOs specified in Table 4-2 *Summary of QC Limits* (Appendix A, QAPP Addendum) and provided competitive rates (i.e., best value) for performing the requested analyses for all AOC-U soil and aqueous samples.

Approved by:

Name	Organization	Date

Communicated to the following Project Team Members:

Name	Date	Name	Date
Frank Gardner	**2/08/2011**	**Zachary Beck**	**2/08/2011**
James Moore	**2/08/2011**	**Craig McGriff**	**2/08/2011**
Dustin McNeil	**2/08/2011**	**Derrick Berry**	**2/08/2011**

VARIANCE FORM

Project/Phase Number: 8090006.01.010	**Site Name: AOC-U (Lost River Basin)**
Site Manager/Supervisor: James Moore/Dustin McNeil	**Location: Holloman Air Force Base**
Date Variance Takes Effect: February 8, 2011	**Date of Form Completion: February 8, 2011**

Original Requirement:

Collect and analyze one round of 50 groundwater samples for VOCs, SVOCs, TPH-GRO/DRO/ORO, TAL metals, perchlorate and TDS. Collect and analyze one round of 3 surface water samples for VOCs, SVOCs, TPH-GRO/DRO/ORO, TAL metals, perchlorate, TDS, pH and hardness.

Requirement Reference:

NationView. July 2009. *Final RCRA Facility Investigation Work Plan AOC-U Lost River Basin, Holloman AFB, New Mexico*. Table 6-2, Groundwater Sampling and Analysis and Table 6-3, Surface Water Sampling and Analysis.

Variance:

Added nitrate (by USEPA method 353.2) to list of parameters for soil, groundwater, and surface water analysis. Revised the *Final RCRA Facility Investigation Work Plan AOC-U Lost River Basin, Holloman AFB*, New Mexico where applicable (Sections 6.3.3.3 and 6.3.4 and Tables 6-2 and 6-3).

Reason for Variance:

During a meeting with the New Mexico Environment Department, and the HAFB 49th CES/CEAN (January 24, 2011, in Albuquerque, NM), the NMED requested that all samples (soil, groundwater, and surface water) should also be analyzed for nitrate.

Approved by:

Name	Organization	Date

Communicated to the following Project Team Members:

Name	Date	Name	Date
Frank Gardner	**2/08/2011**	**Zachary Beck**	**2/08/2011**
James Moore	**2/08/2011**	**Craig McGriff**	**2/08/2011**
Dustin McNeil	**2/08/2011**	**Derrick Berry**	**2/08/2011**

VARIANCE FORM

Project/Phase Number: 8090006.01.010	**Site Name: AOC-U (Lost River Basin)**
Site Manager/Supervisor: James Moore/Dustin McNeil	**Location: Holloman Air Force Base**
Date Variance Takes Effect: February 8, 2011	**Date of Form Completion: February 8, 2011**

Original Requirement:

Collect one round of 50 groundwater samples and one round of 3 surface water samples for perchlorate analysis at Accutest Laboratories in Orlando, Florida by USEPA Method 314.

Requirement Reference:

NationView. July 2009. *Final RCRA Facility Investigation Work Plan AOC-U Lost River Basin, Holloman AFB, New Mexico*. Table 6-2, Groundwater Sampling and Analysis and Table 6-3, Surface Water Sampling and Analysis.

Variance:

All of the groundwater and surface water samples will be analyzed for perchlorate by TestAmerica using USEPA Method 6860, which requires field filtration via a 0.45 micron filter.

Reason for Variance:

During the OT-37 groundwater sampling event (conducted February 2010), ten monitoring wells were sampled for perchlorate using EPA Method 314 (this method does not require field filtration). Due to matrix interference (elevated naturally occurring TDS), the method detection limit (MDL) was elevated in each sample (ranging from 40 to 100 µg/L). This range of MDLs is above the USEPA Interim Drinking Water Health Advisory for perchlorate (15 µg/L). Therefore, all the samples were qualified "U" (not-detected) and values were set at the corresponding MDL. Note: All of the OT-37 monitoring wells were re-sampled and analyzed using USEPA Method 6860.

In order to obtain a perchlorate detection limit that is lower than the USEPA Interim Drinking Water Health Advisory (15 µg/L), the AOC-U groundwater and surface water samples will be field filtered using a 0.45 micron filter and analyzed by TestAmerica using USEPA Method 6860 which has a method detection limit of 0.0088 µg/L.

Additionally, the laboratory proposed within the Work Plan (Accutest Laboratories) could not provide perchlorate analysis via Method 6860. Subsequently, Test America Laboratories were selected for perchlorate analysis.

Approved by:

Name	Organization	Date

Communicated to the following Project Team Members:

Name	Date	Name	Date
Frank Gardner	**2/08/2011**	**Zachary Beck**	**2/08/2011**
James Moore	**2/08/2011**	**Craig McGriff**	**2/08/2011**
Dustin McNeil	**2/08/2011**	**Derrick Berry**	**2/08/2011**

APPENDIX A

HISTORICAL DATA FROM PREVIOUS INVESTIGATIONS

Appendix A-1-1 (AOC-U)

Portions of the:

Draft Final Phase I RCRA Facility Investigation Report, Table 2 Solid Waste Management Units
Holloman Air Force Base, NM

Radian Corporation, October 1994

Headquarters, Air Combat Command
Langley Air Force Base,
Virginia

Draft Final

Phase I RCRA Facility Investigation Report

Table 2 Solid Waste Management Units

Volume I

October 1994

49 CES/CEV
Holloman Air Force Base,
New Mexico

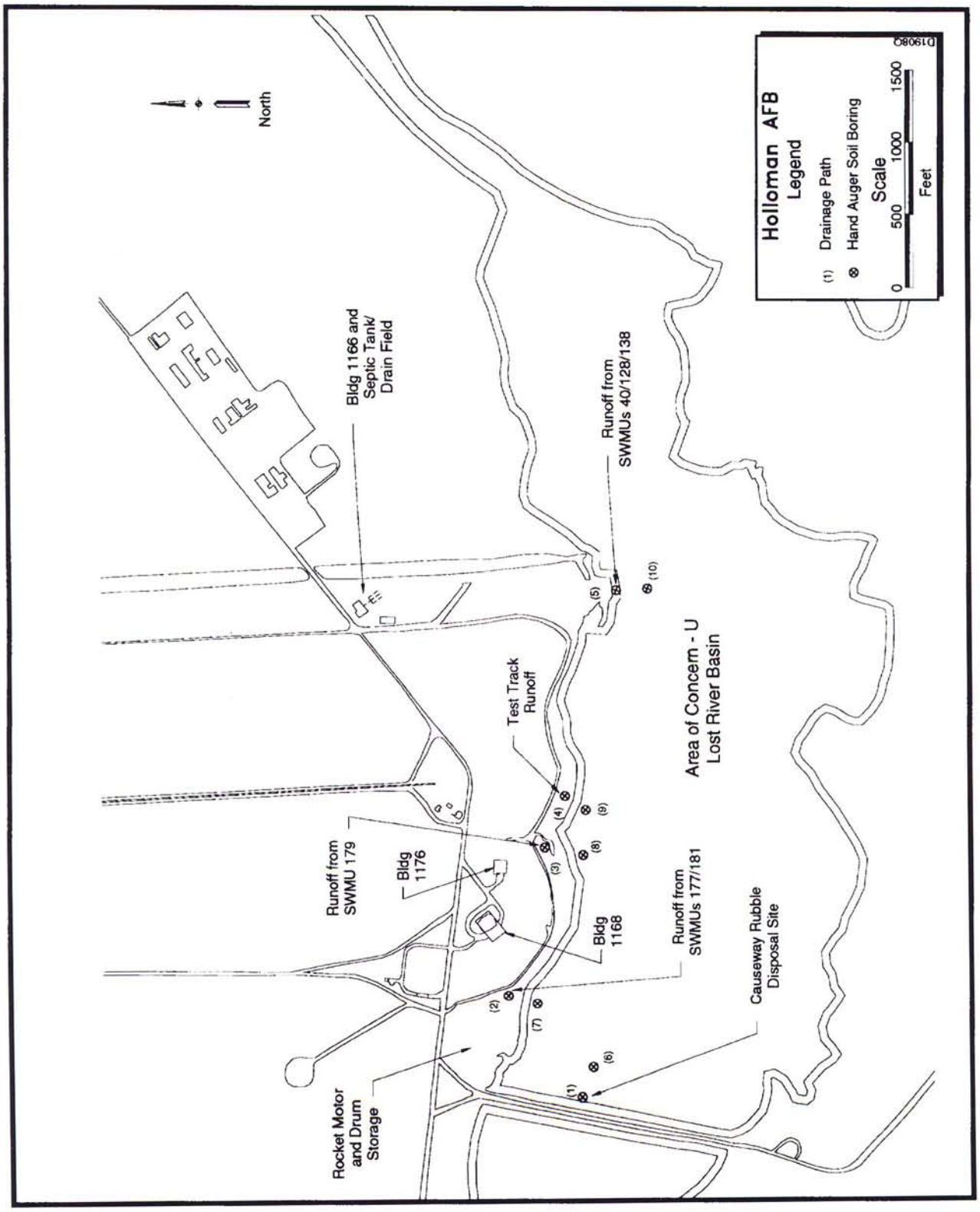


Figure 4.21-1. AOC-U Feature and Sampling Locations

Table 4.21-1
Analytical Results for Soil Samples—AOC-U

Location ID		AOC-U-A01		AOC-U-A01		AOC-U-A02		AOC-U-A02	
Sample ID		AOC-U-A01-01-01		AOC-U-A01-02-01		AOC-U-A02-01-01		AOC-U-A02-02-01	
Beg. Depth-End Depth (ft)		0-2		2-4		0-2		2-4	
E418.1 - Total Recoverable Petroleum Hydrocarbons (mg/kg)									
Hydrocarbons	[1000]	NA		NA		< DL	(36.1)	< DL	(36.5)
SW8240 - Volatile Organics (μg/kg)									
Acetone	[8x10 ^{6}]	NA		NA		990	(29)	154	(5.8)
Carbon disulfide	[8x10 ^{6}]	NA		NA		< DL	(1.4)	< DL	(1.4)
Methylene chloride	[9.3x10 ^{4}]	NA		NA		6 B	(1.4)	5.7 B	(1.4)
Trichloroethene	[NS]	NA		NA		8.5	(2.9)	< DL	(2.9)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	65.3	(0.0508)	29.8B	(0.0567)	34.7	(0.0576)	24.9	(0.0584)
Cadmium	[80]	0.392 B	(0.252)	< DL	(0.281)	0.304 B	(0.286)	< DL	(0.289)
Chromium	[6.6,8x10 ^{4}]	9.12	(0.239)	5.19	(0.268)	4.65	(0.272)	4.62	(0.275)
Silver	[0.73,400]	< DL	(0.16)	< DL	(0.179)	< DL	(0.182)	0.521 B	(0.185)
SW7060 - Arsenic (mg/kg)									
Arsenic	[6.88,24]	3.67	(0.323)	< DL	(0.376)	< DL	(0.402)	< DL	(0.376)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	20.1 S	(0.951)	1.85 S	(0.111)	5.18 S	(0.237)	0.557 S	(0.111)
SW7471 - Mercury (mg/kg)									
Mercury	[NS,24]	< DL	(0.0148)	< DL	(0.0171)	< DL	(0.0174)	< DL	(0.0176)
SW7740 - Selenium (mg/kg)									
Selenium	[10.53,400]	1.85 S	(0.244)	5.08 S	(0.285)	4.88 S	(0.304)	3.7 S	(0.285)
Location ID		AOC-U-A03		AOC-U-A03		AOC-U-A04		AOC-U-A04	
Sample ID		AOC-U-A03-01-01		AOC-U-A03-02-01		AOC-U-A04-01-01		AOC-U-A04-02-01	
Beg. Depth-End Depth (ft)		0-2		0-2		0-2		0-2	
E418.1 - Total Recoverable Petroleum Hydrocarbons (mg/kg)									
Hydrocarbons	[1000]	NA		NA		< DL	(36.3)	< DL	(39.9)
SW8240 - Volatile Organics (μg/kg)									
Acetone	[8x10 ^{6}]	NA		NA		< DL	(5.9)	31.2	(6.1)
Carbon disulfide	[8x10 ^{6}]	NA		NA		< DL	(1.5)	< DL	(1.5)
Methylene chloride	[9.3x10 ^{4}]	NA		NA		5.6 B	(1.5)	5.2 B	(1.5)
Trichloroethene	[NS]	NA		NA		< DL	(2.9)	< DL	(3)
SW8270 - Semivolatile Organics TICs (μg/g)									
No other compounds detected	[NS]	–	0	–	0	–	0	–	0
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	37.5	(0.053)	31.9	(0.0577)	45.8	(0.0542)	32.5	(0.0561)
Cadmium	[80]	0.286 B	(0.263)	< DL	(0.286)	< DL	(0.269)	< DL	(0.278)
Chromium	[6.6,8x10 ^{4}]	5.79	(0.25)	3.48	(0.272)	5.67	(0.256)	3.83	(0.264)
Silver	[0.73,400]	0.4 B	(0.168)	< DL	(0.182)	< DL	(0.171)	< DL	(0.177)
SW7060 - Arsenic (mg/kg)									
Arsenic	[6.88,24]	< DL	(0.37)	< DL	(0.326)	1.72	(0.356)	< DL	(0.343)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	6.77 S	(0.218)	1.8 S	(0.0956)	1.57 S	(0.105)	0.929 S	(0.101)

Table 4.21-1 (Continued)

Location ID		AOC-U-A03		AOC-U-A03		AOC-U-A04		AOC-U-A04	
Sample ID		AOC-U-A03-01-01		AOC-U-A03-02-01		AOC-U-A04-01-01		AOC-U-A04-02-01	
Beg. Depth-End Depth (ft)		0-2		2-4		0-2		2-4	
SW7471 - Mercury (mg/kg)									
Mercury	[NS,24]	0.025 B	(0.0171)	0.0273 B	(0.0188)	< DL	(0.0174)	0.0437 B	(0.019)
SW7740 - Selenium (mg/kg)									
Selenium	[10.53,400]	3.08 S	(0.28)	3.55 S	(0.247)	1.75 S	(0.27)	2.05 S	(0.259)
Location ID		AOC-U-A05		AOC-U-A05		AOC-U-A06		AOC-U-A07	
Sample ID		AOC-U-A05-01-01		AOC-U-A05-02-01		AOC-U-A06-01-01		AOC-U-A07-01-01	
Beg. Depth-End Depth (ft)		0-2		2-4		0-2		0-2	
E418.1 - Total Recoverable Petroleum Hydrocarbons (mg/kg)									
Hydrocarbons	[1000]	< DL	(38.3)	< DL	(42.7)	NA		< DL	(36.4)
SW8240 - Volatile Organics (μg/kg)									
Acetone	[8x10 ^{6}]	9.12 BJ	(22.5)	5.36 BJ	(25)	NA		40.8	(5.4)
Carbon disulfide	[8x10 ^{6}]	ND	(4.08)	ND	(4.53)	NA		< DL	(1.4)
Methylene Chloride	[9.3x10 ^{4}]	1.02 BJ	(3.2)	1.25 BJ	(3.55)	NA		4.7 B	(1.4)
Trichloroethene	[NS]	ND	(4.89)	ND	(5.42)	NA		< DL	(2.7)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	36.8	(0.0541)	24.6	(0.0663)	139	(0.0484)	94.1	(0.0512)
Cadmium	[80]	< DL	(0.268)	< DL	(0.329)	< DL	(0.24)	0.266 B	(0.254)
Chromium	[6.6,8x10 ^{4}]	4.9	(0.255)	4.04	(0.313)	26.2	(0.228)	16.8	(0.241)
Silver	[0.73,400]	< DL	(0.171)	< DL	(0.21)	< DL	(0.153)	< DL	(0.162)
SW7060 - Arsenic (mg/kg)									
Arsenic	[6.88,24]	0.0925 SJ	(0.252)	1.27 S	(0.382)	6.99	(0.363)	6.39	(0.306)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	1.02	(0.0638)	< DL	(0.0968)	16.3 S	(0.427)	13.5 S	(0.36)
SW7471 - Mercury (mg/kg)									
Mercury	[NS,24]	< DL	(0.0185)	0.0424	(0.0203)	< DL	(0.0167)	< DL	(0.0174)
SW7740 - Selenium (mg/kg)									
Selenium	[10.53,400]	2.78 S	(0.225)	4.67 S	(0.342)	2.08 S	(0.274)	1.74 S	(0.231)

Table 4.21-1 (Continued)

Location ID		AOC-U-A08		AOC-U-A09		AOC-U-A10	
Sample ID		AOC-U-A08-01-01		AOC-U-A09-01-01		AOC-U-A10-01-01	
Beg. Depth-End Depth (ft)		0-2		0-2		0-2	
E418.1 - Total Recoverable Petroleum Hydrocarbons (mg/kg)							
Hydrocarbons	[1000]	NA		< DL	(34.5)	< DL	(34.5)
SW8240 - Volatile Organics (μg/kg)							
Acetone	[8x10 ^{6}]	NA		3340	(6)	9.97 BJ	(20.3)
Carbon disulfide	[8x10 ^{6}]	NA		25.4	(1.5)	ND	(3.67)
Methylene Chloride	[9.3x10 ^{4}]	NA		5.6 B	(1.5)	1.19 BJ	(2.88)
Trichloroethene	[NS]	NA		< DL	(3)	ND	(4.4)
SW6010 - Metals (mg/kg)							
Barium	[84.36,5600]	143	(0.0575)	149	(0.057)	64.7	(0.054)
Cadmium	[80]	< DL	(0.285)	< DL	(0.283)	0.431 B	(0.267)
Chromium	[6.6,8x10 ^{4}]	28.6	(0.271)	28.5	(0.269)	12.5	(0.254)
Silver	[0.73,400]	< DL	(0.182)	< DL	(0.18)	< DL	(0.171)
SW7060 - Arsenic (mg/kg)							
Arsenic	[6.88,24]	7.36	(0.28)	7.24	(0.373)	0.23 SJ	(0.267)
SW7421 - Lead (mg/kg)							
Lead	[12.3,500]	17.3 S	(0.826)	15.7 S	(0.44)	6.99	(0.271)
SW7471 - Mercury (mg/kg)							
Mercury	[-0.0006,24]	< DL	(0.0162)	< DL	(0.0167)	0.0486	(0.0167)
SW7740 - Selenium (mg/kg)							
Selenium	[10.53,400]	2.48 S	(0.212)	0.168 SJ	(0.282)	4.1 S	(0.239)

Note: The UTLs and the trigger criteria are presented, respectively, in brackets [ ]; [ ] = trigger criteria for organics; [,] = UTL, trigger criteria for inorganics.

( ) = Detection limit.
B = Analyte detected in associated blank analyses.
DL = Detection limit.
J = Estimated concentration, analyte detected at concentration below the detection limit.
NA = Not analyzed.
ND = Not detected.
NS = Not specified.
S = Analyte concentration obtained using the MSA.

Appendix A-2-1 (OT-04)

Portions of the:

Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites Holloman Air Force Base, NM

Radian Corporation, June 1992

RADIAN
CORPORATION

DCN 92-269-004-16-07
RCN 269-004-16-06

(Mailing Address)
P.O. Box 201088
Austin, TX 78720-1088
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Austin, TX 78759
(512) 454-4797

REMEDIAL INVESTIGATION (RI) REPORT

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NM

Volume I

DRAFT FINAL

Prepared for:

49 SG/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 North MoPac Blvd.
P.O. Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-89-D-0515 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1992

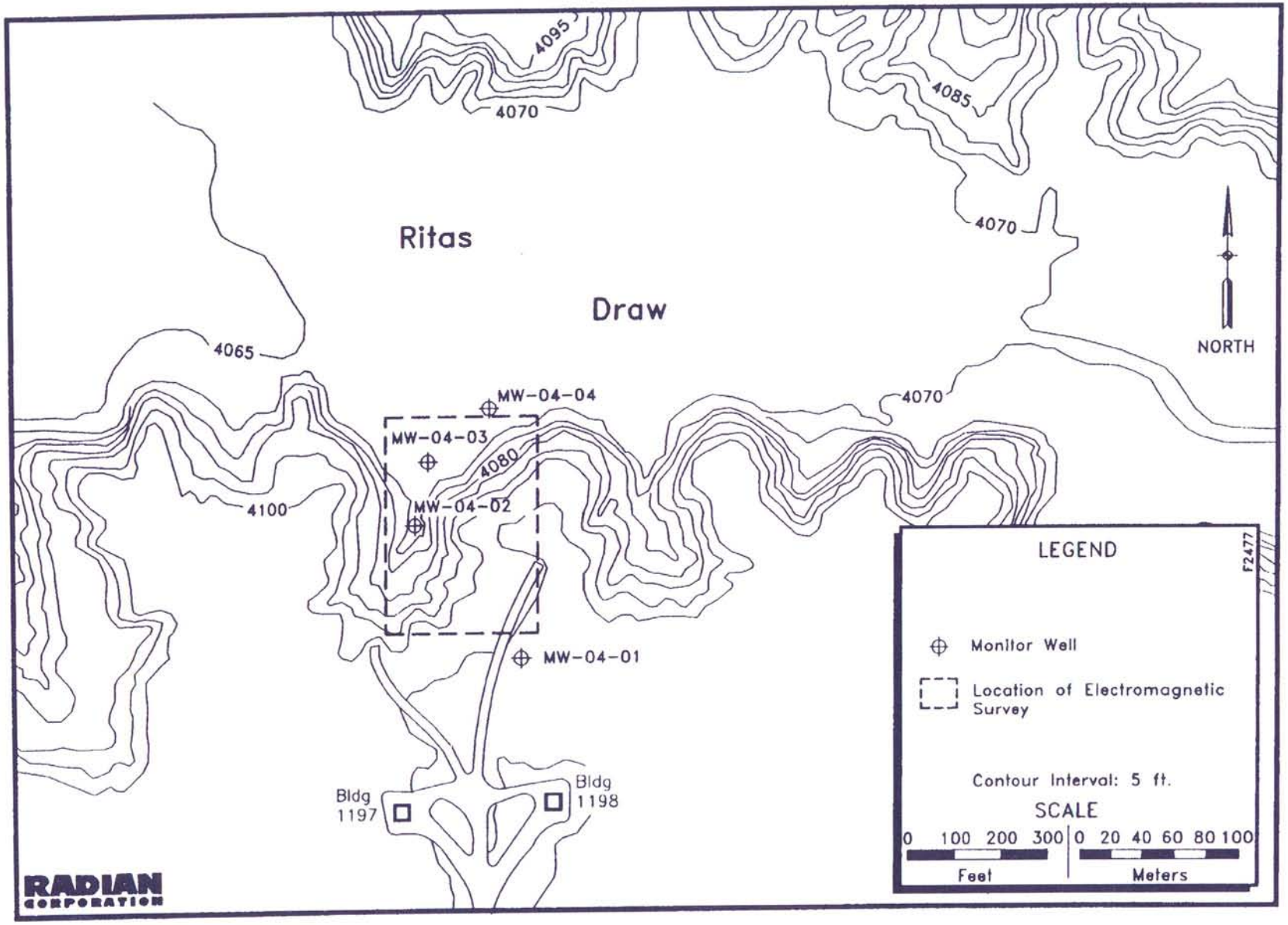


Figure 4-6. Boundary Map and Monitor Well Locations for Site 4

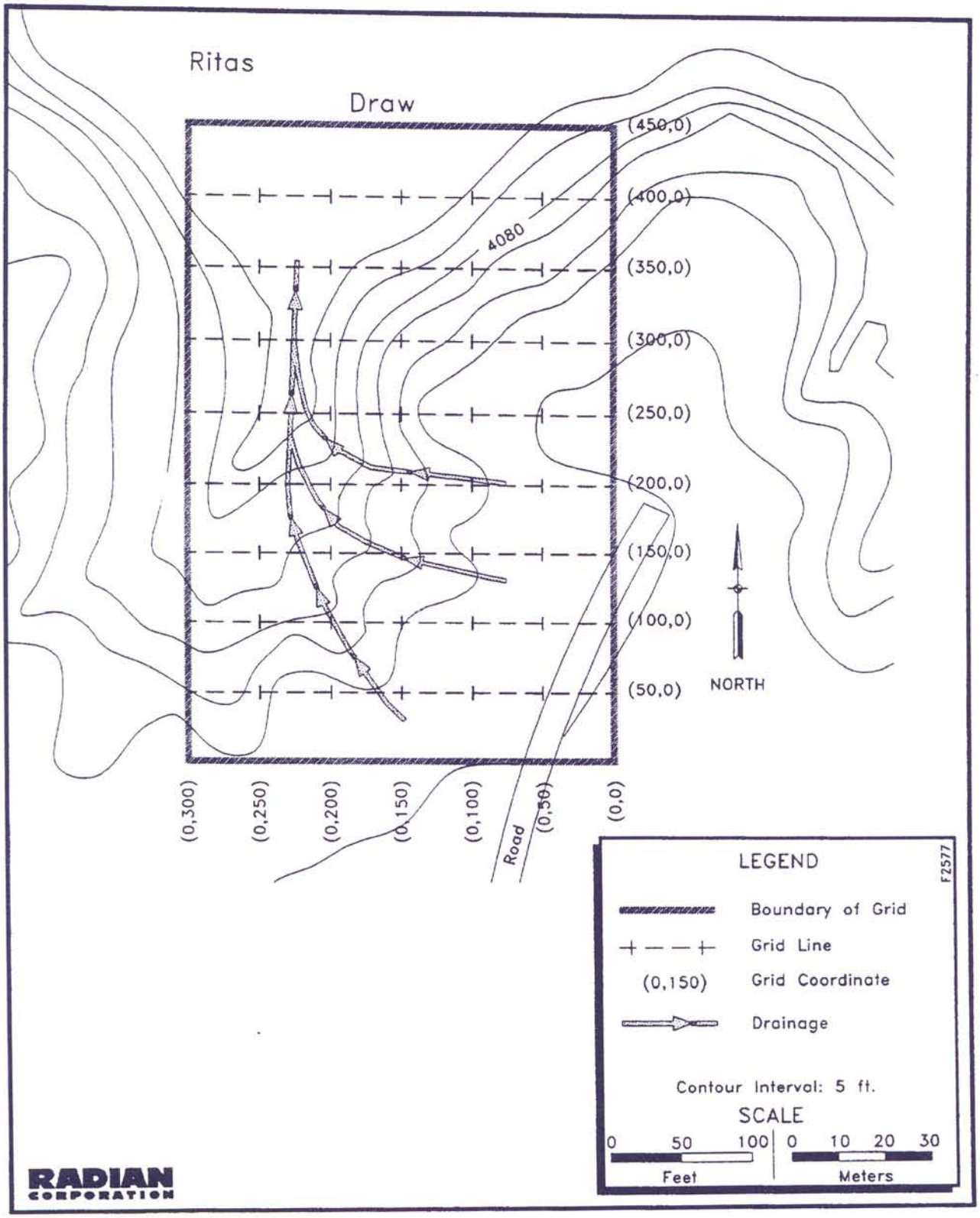


Figure 4-7. Location of EM Survey Grid and Drainages for Site 4

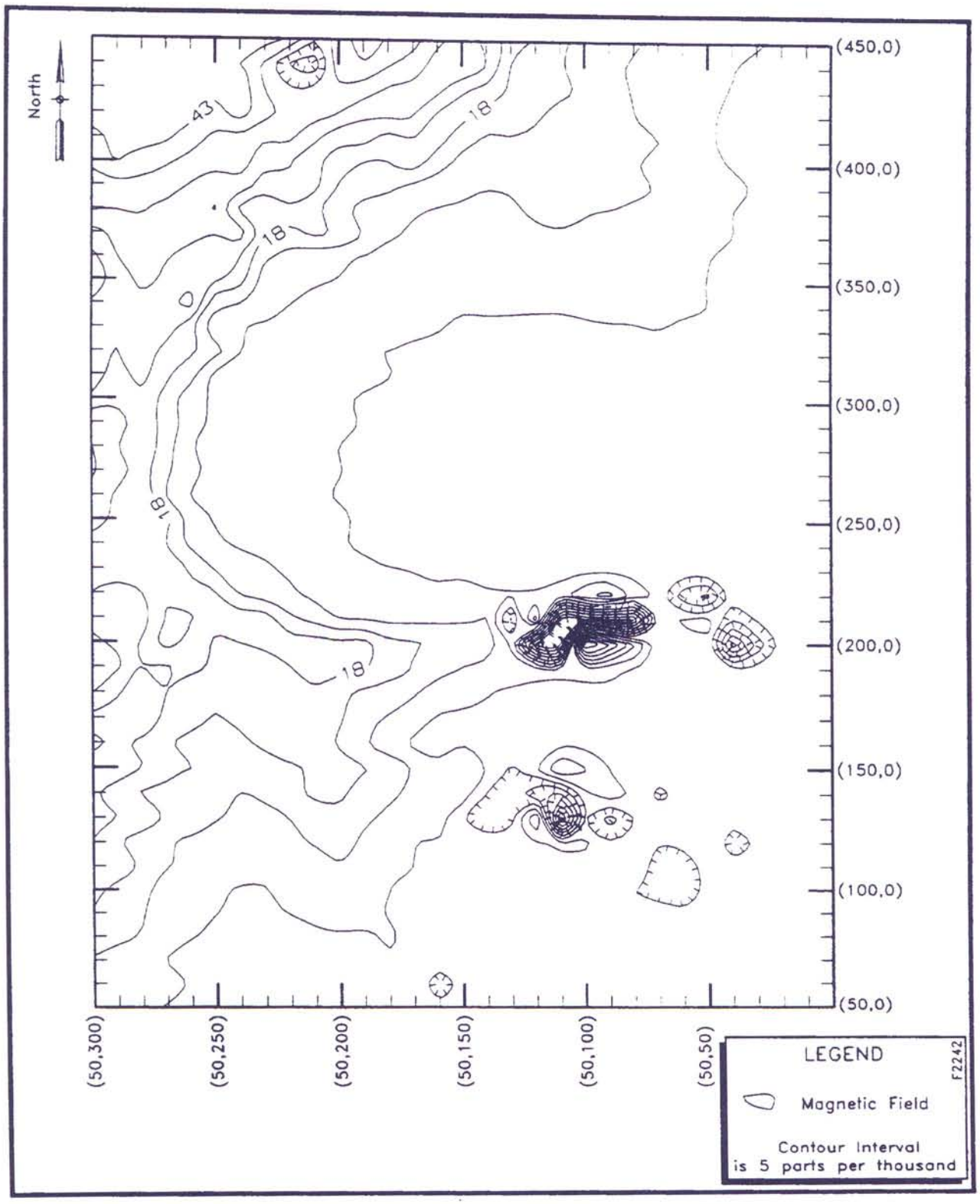


Figure 4-8. Magnetic Results of EM Survey for Site 4

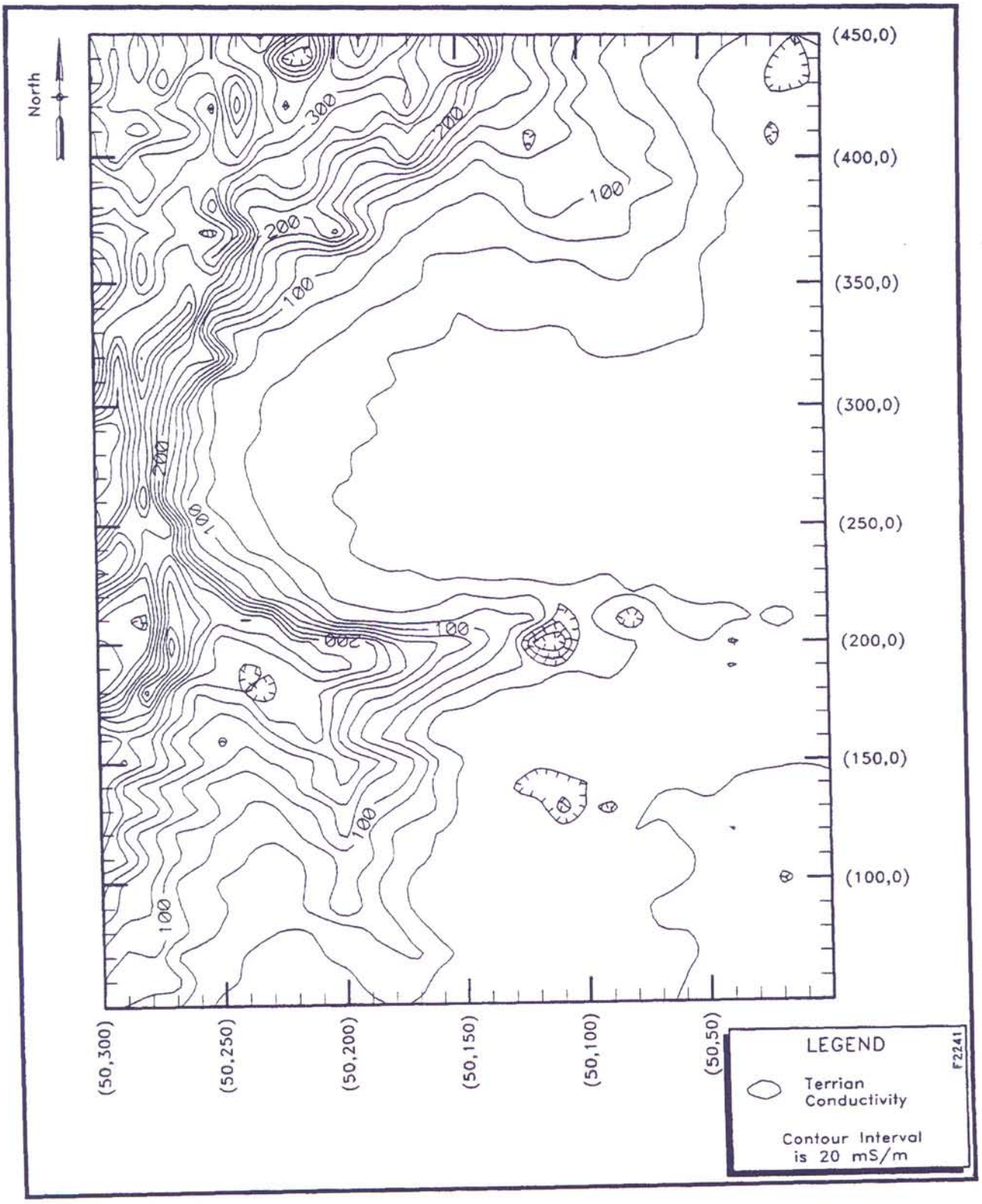


Figure 4-9. Terrain Conductivity Results of EM Survey for Site 4

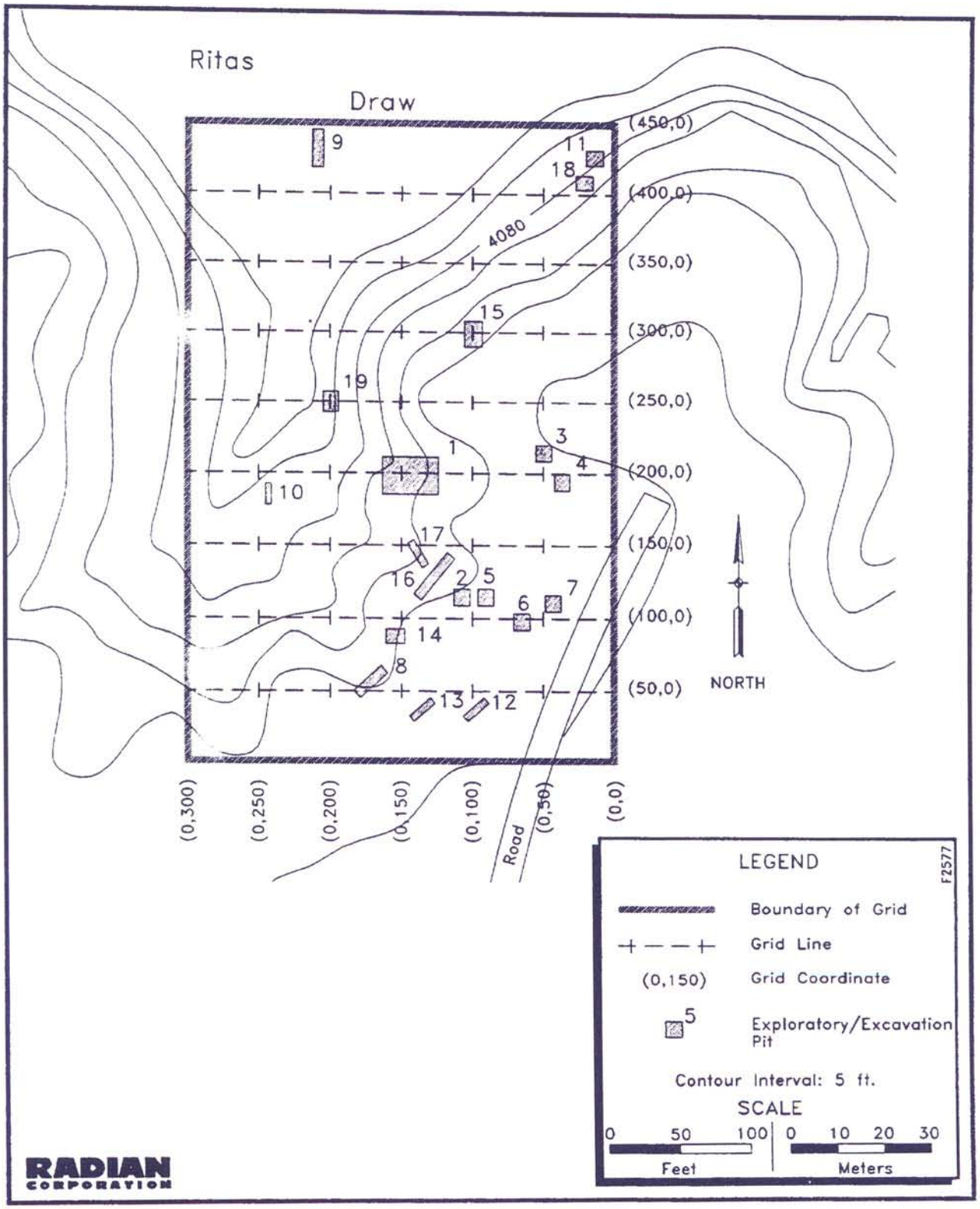


Figure 4-10. Location of Exploratory Pits at Site 4

Table 4-19

Location, Dimensions, and Contents of Exploratory Pits at Site 4

Pit Number	Coordinate	Pit Dimensions (ft)	Description of Waste in Pit
1	(210, 100)	10x40x10	Empty 1650 gallon acid trailer tank
2	(130, 110)	4x4x4	Unidentifiable metallic debris
3	(220, 50)	4x4x4	Three solid rocket boosters and metal scrap
4	(200, 40)	4x4x4	One solid rocket booster and metal scrap
5	(130, 90)	4x4x4	Lab equipment such as burners, piping, weights and balance, and fire extinguisher
6	(100, 65)	4x4x4	Metallic debris and solid rocket booster fuselage
7	(120, 40)	4x4x4	Metallic debris and solid rocket booster fuselage
8	(60, 160)	3x10x5	Fill
9	(440, 210)	5x4x6	Mound of reworked dirt
10	(240, 180)	2x6x2	Native soil
11	(430, 20)	4x4x4	Reworked soil containing asphalt
12	(40, 90)	3x10x5	Native soil and fill
13	(40, 110)	2x10x5	Soil is stained blue. No waste material.
14	(80, 170)	4x5x4	Background
15	(300, 100)	5x5x4	Background confirmation pit - native soil
16	(130, 120)	4x12x6	Six solid rocket boosters
17	(140, 150)	2x6x6	Boxes containing approximately 80 amber bottles filled with chemicals
18	(410, 20)	4x4x4	Reworked soil containing small amounts of asphalt
19	(250, 200)	4x4x4	Background confirmation pit - contained native soil

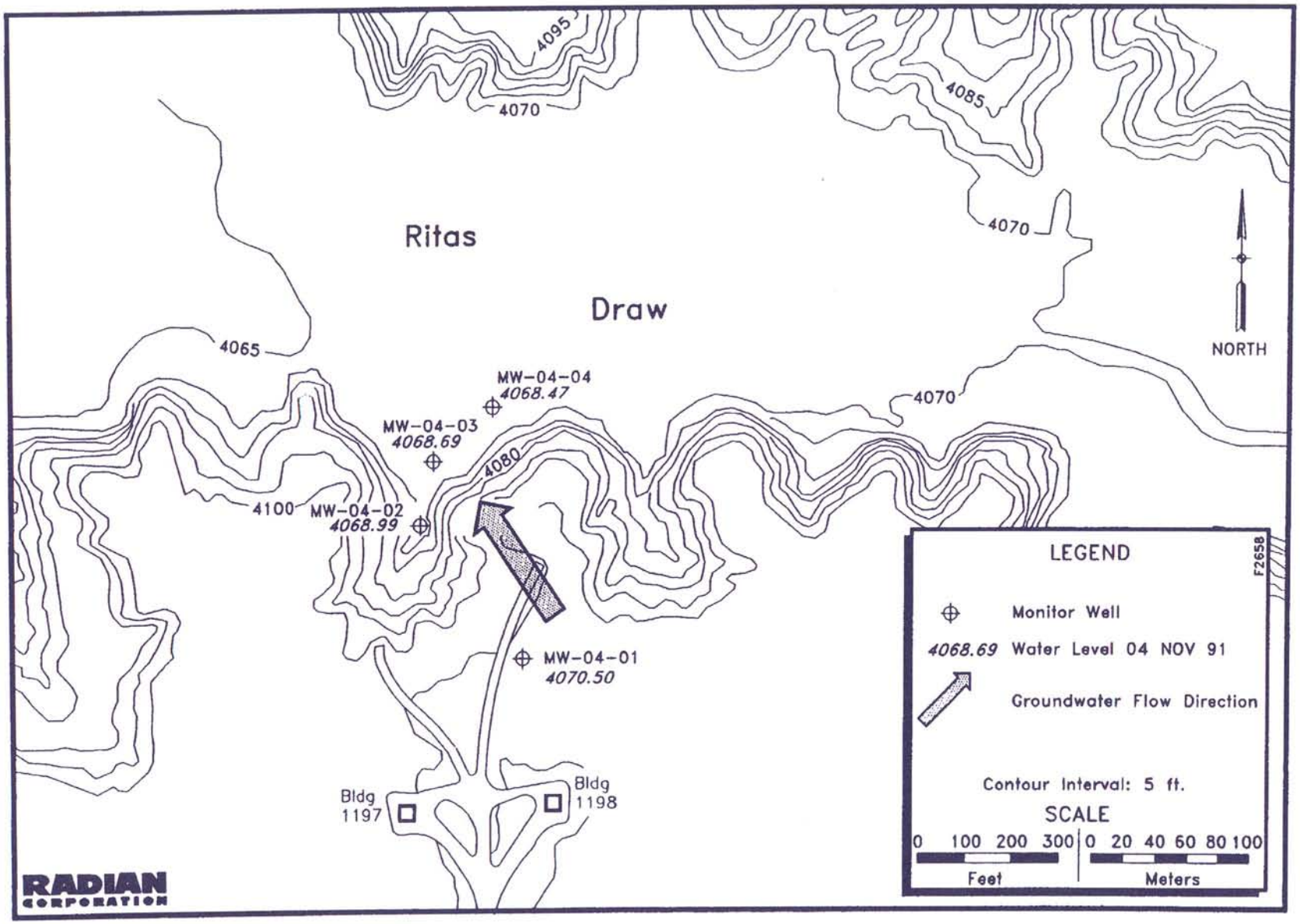


Figure 4-11. Monitor Well Locations and Groundwater Flow Direction for Site 4

Table 4-20

Concentrations of Inorganic Analytes in Site 4 Groundwater Samples

Location: Sample ID:	MW-04-01 04-01-01		MW-04-02 04-02-01		MW-04-03 04-03-01		MW-04-04 04-04-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	17000	(10)	30000	(10)	42000	(10)	66000	(10)
EPA 300.0 - Chloride (mg/L)	6800	(26)	11000	(26)	15000	(26)	30000	(52)
EPA 300.0 - Sulfate (mg/L)	3300	(5.0)	5800	(5.0)	7700	(50)	13000	(50)
EPA 340.2 - Fluoride (mg/L)	1.1	(0.10)	1.2	(0.10)	0.93	(0.10)	0.50	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	23	(0.44)	46	(1.1)	9.4	(0.11)	4.5	(0.11)
EPA 365.2 - Total Phosphorus (mg/L)	0.25	(0.020)	0.28	(0.020)	0.32	(0.020)	0.40	(0.020)
SW6010 - Metals (mg/L)								
Antimony	ND	(0.20)	0.15 @	(0.10)	ND	(0.10)	ND	(0.10)
Cadmium	ND	(0.010)	ND	(0.0050)	ND	(0.0050)	0.0066 @	(0.0050)
Nickel	ND	(0.040)	ND	(0.020)	ND	(0.020)	0.032 @	(0.020)
SW7740 - Selenium (mg/L)	0.033 @	(0.020)	0.023 @	(0.020)	0.032 @	(0.020)	0.071 @	(0.020)

NOTE: Table presents only constituents detected in groundwater at this site.
ND = Not Detected, at the reported detection limit.
@ = Measured result is less than five times the detection limit.

Table 4-21

Concentrations of Organic Analytes in Site 4 Groundwater Samples

Location: Sample ID:	MW-04-01 04-01-01		MW-04-02 04-02-01		MW-04-03 04-03-01		MW-04-04 04-04-01	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (μg/L)	1540	(200)	1900	(200)	527	(200)	3180	(200)
SW8240 - Volatile Organics (μg/L)								
Methylene chloride	8.2 @	(5.0)	5.5 @	(5.0)	39	(5.0)	36	(5.0)

NOTE: Table presents only constituents detected in groundwater at this site.
@ = Measured result is less than five times the detection limit.

Appendix A-2-2 (OT-04)

Portions of the:

Draft Final Phase II RCRA Facility Investigation Report,
Table 1 Solid Waste Management Units
Holloman Air Force Base, NM

Foster Wheeler Environmental Corporation and Radian Corporation,
June 1995

DCN 95-670-008-09

Draft Final

PHASE II RCRA FACILITY INVESTIGATION REPORT

TABLE 1 SOLID WASTE MANAGEMENT UNITS
HOLLOMAN AIR FORCE BASE, NM

VOLUME I

Prepared for:

49 CES/CEV
Holloman Air Force Base, NM

and

HQ ACC/CEVR
Langley Air Force Base, VA

Prepared by:

Foster Wheeler Environmental Corporation
143 Union Blvd., Suite 1010
Lakewood, Colorado 80203
303/988-2202

Radian Corporation
8501 North Mopac Blvd.
Austin, Texas 78720
512/454-4797

Under Contract No. DACW45-94-D-0003, DO No. 02, WAD 03 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1995

Analytical Results

All groundwater samples collected at SWMU 102 were analyzed for total (unfiltered) selenium using EPA Method SW7740. The analytical results are presented in Table 4.2-1. The concentrations of selenium in groundwater samples collected during the Phase II RFI were generally lower than those measured during the 29 Sites RI. As in the 29 Sites RI, the sample from downgradient monitor well MW-04-04 contained the highest concentration of selenium (0.054 mg/L). However, this was the only Phase II RFI result to exceed the detection limit of 0.05 mg/L. None of the groundwater samples contained total selenium concentrations in excess of the background UTL (0.079 mg/L).

4.2.4 Conclusions

Total selenium concentrations in groundwater samples from SWMU 102 do not exceed the Base-wide background UTL for total selenium. This indicates that the detected selenium concentrations occur naturally in the groundwater at this site and are not a result of past waste disposal practices. Selenium can be eliminated as a COPC at this site.

4.2.5 Recommendations

NFA is recommended for SWMU 102. A Class 3 permit modification request will be completed by Holloman AFB to achieve NFA status. Monitor well MW-04-02 should be abandoned.

Table 4.2-1
Analytical Results for SWMU 102 Groundwater Samples

Location ID		MW-04-01		MW-04-03		MW-04-04		MW-BG-04	
SW7740 (mg/L)	Selenium	0.0086 J	(0.01)	0.011 J	(0.025)	0.054	(0.025)	0.0065 J	(0.05)

J = Estimated concentration; analyte measured below the detection limit.
( ) = Detection limit.

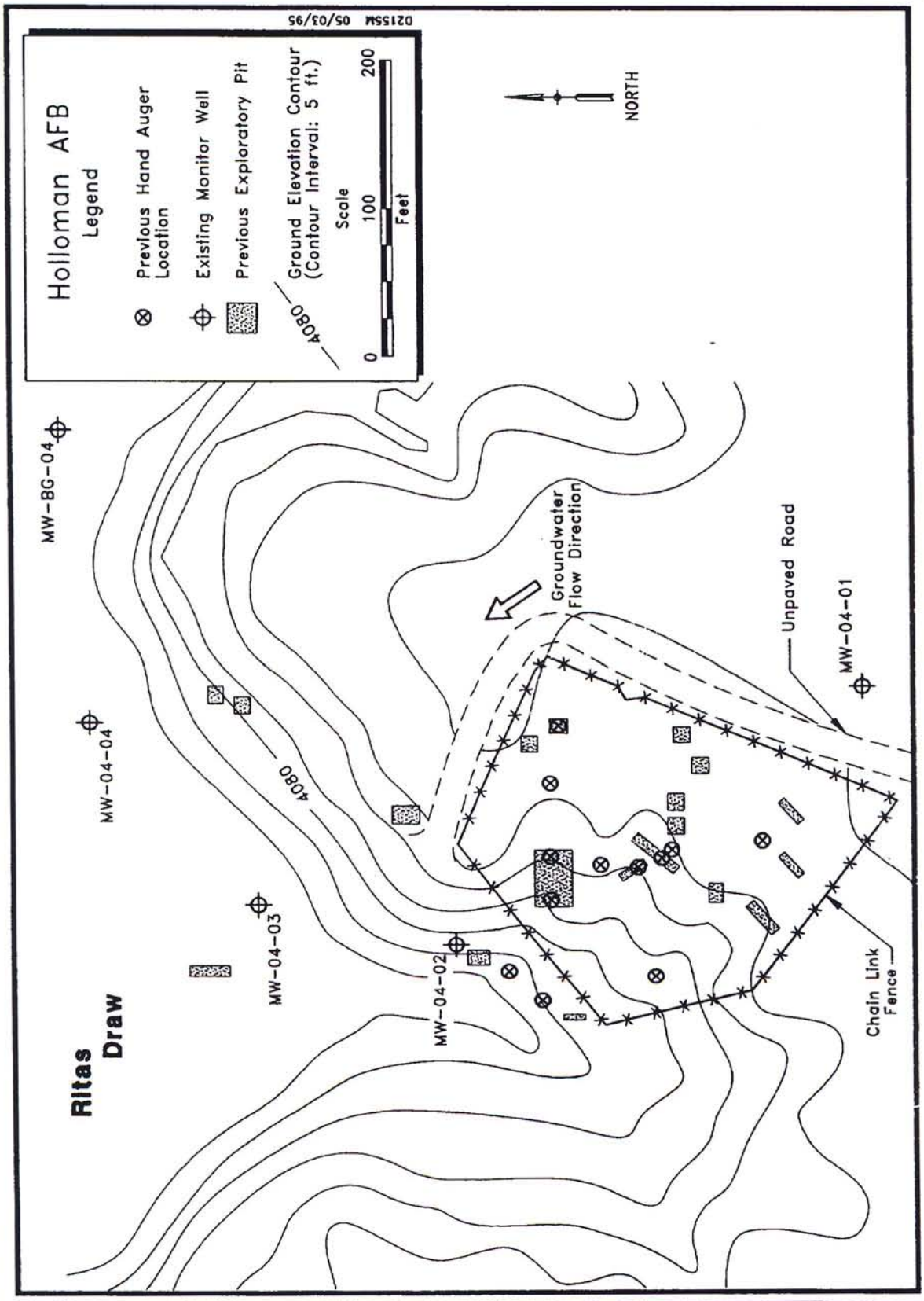


Figure 4.2-1. SWMU 102 - Groundwater Sample Locations

Appendix A-2-3 (OT-04)

Portions of the:

Decision Documents Installation Restoration Program
Holloman Air Force Base, NM

Radian Corporation, September 1995

Headquarters, Air Combat Command
Langley Air Force Base,
Virginia

Decision Documents

Installation Restoration Program

September 1995

49 CES/CEV
Holloman Air Force Base,
New Mexico

Declaration

Statutory Preference for Treatment as a Principal Element is not Applicable and a Five-Year Review is not Required

Site Name and Location
IRP Site OT-04 (RCRA SWMU 102)
Acid Trailer Burial Site
Holloman Air Force Base, New Mexico

Statement of Basis and Purpose
This decision document presents the selected remedial action for the referenced site chosen in accordance with CERCLA, as amended by SARA and, to the extent practicable, the National Contingency Plan. This decision is based on the administrative record file for this site.

The State of New Mexico concurs on the selected remedy.

Description of the Selected Remedy: No Action
Site investigations and a voluntary remedial action conducted for the site indicate that no action is necessary to protect human health and the environment. As part of the no action remedy, debris was removed from the site and a chain-link fence was erected to prohibit unauthorized access.

Declaration Statement
The remedial investigation, the associated risk assessment, a voluntary remedial action, and the RCRA facilities investigation conducted for the site indicate that conditions at the site do not require further action to ensure the protection of human health and the environment. Because no hazardous substances will remain on site above health-based levels, a five-year review is not necessary.

If new evidence suggesting the need for further action becomes available, the site closeout decision may be changed. Likewise, future changes in land use, environmental regulations, or environmental laws may reverse the closeout decision.

Mark Weidler, Cabinet Secretary
New Mexico Environment Department

9/29/95
Date

Bruce Carlson
Brigadier General, USAF Commander

3 Nov. 95
Date

Appendix A-3-1 (DP-62)

Portions of the:

Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw Holloman Air Force Base, NM

Groundwater Technology Government Services, Inc., November 1998

AR 1150

GROUNDWATER
TECHNOLOGY
GOVERNMENT SERVICES

Groundwater Technology Government Services, Inc
2501 Yale Boulevard SE, Suite 204 Albuquerque, NM 87106 USA
Tel (505) 242-3113 Fax: (505) 242-1103

November 11, 1998

Mr Michael J Bone, P E
Foster Wheeler Environmental Corporation (FWENC)
143 Union Boulevard, #1010
Lakewood, CO 80228

FINAL

RE: Preliminary Assessment/Site Inspection Report for AOC-Ritas Draw, Holloman Air Force Base, New Mexico, Delivery Order 18, Work Authorization Directive 05

Prime Contract No. DACW-45-94-D-0003
MOA NO. DENS-94-11159JM

Dear Mr Bone

This letter presents the results of the Preliminary Assessment/Site Inspection (PA/SI), Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), conducted at Area of Concern (AOC)-Ritas Draw, Holloman Air Force Base (AFB), New Mexico in May 1998 The work consisted of a geophysical survey and collecting direct push technology (DPT) soil and groundwater samples to determine the location and extent of an abandoned drum burial site The work was performed in accordance with the standard operating procedures (SOPs) established in the "Field Sampling Plan and Quality Assurance Project Plan for Preliminary Assessment/Site Inspection for AOC-Ritas Draw, Holloman AFB, New Mexico" (Foster Wheeler Environmental Corporation [FWENC] and Groundwater Technology, 1998)

1.0 INTRODUCTION

1.1 Purpose and Scope

The purpose of the investigation was to determine the location and extent of potential chemicals that might have been released at the abandoned drum burial site A geophysical survey was conducted at the site to locate possible buried drums related to missile testing that occurred at Holloman AFB during the 1950s Based upon the geophysical survey results, close proximity to potential source areas was investigated using DPT A total of four DPT borings were installed at AOC-Ritas Draw.

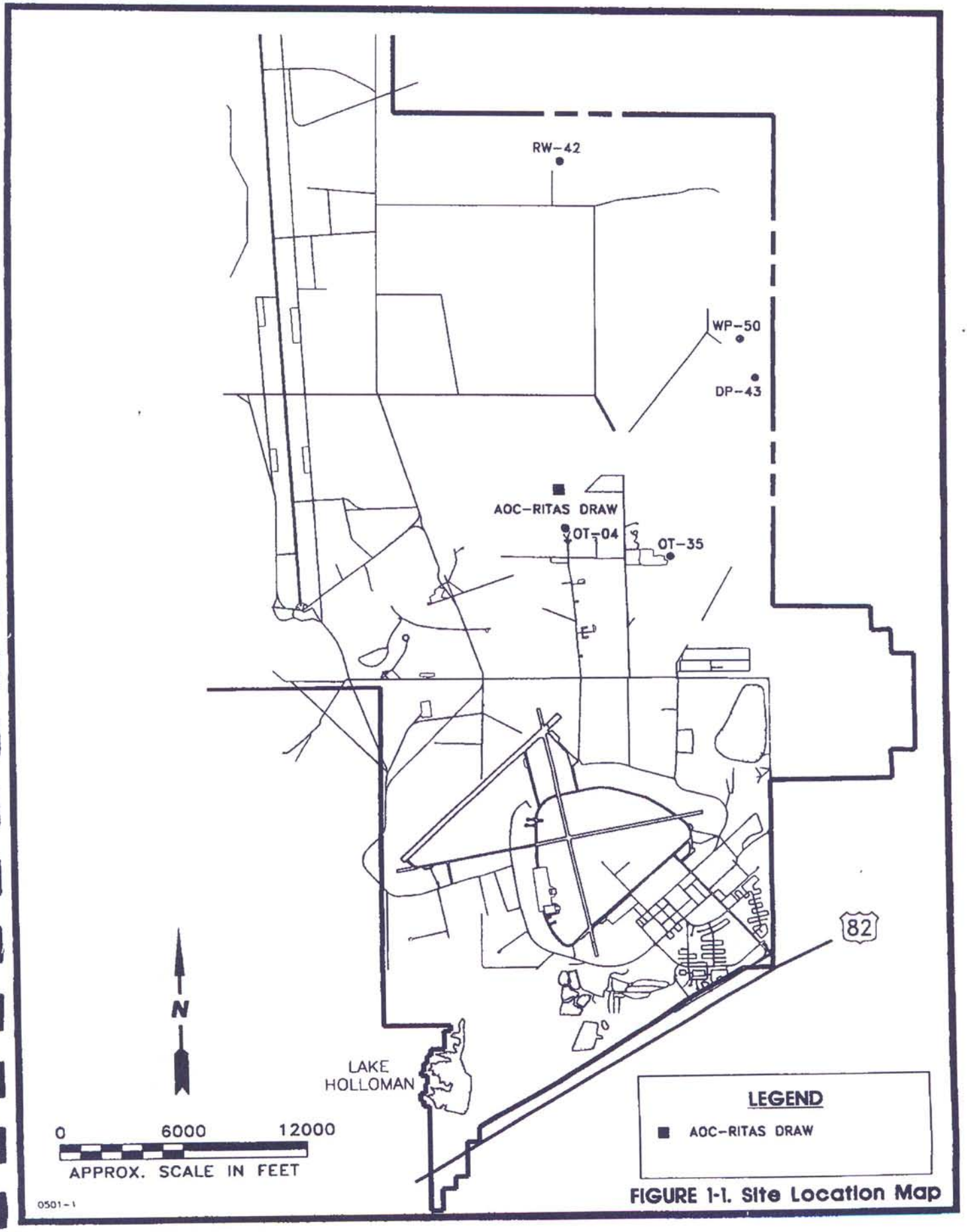


FIGURE 1-1. Site Location Map

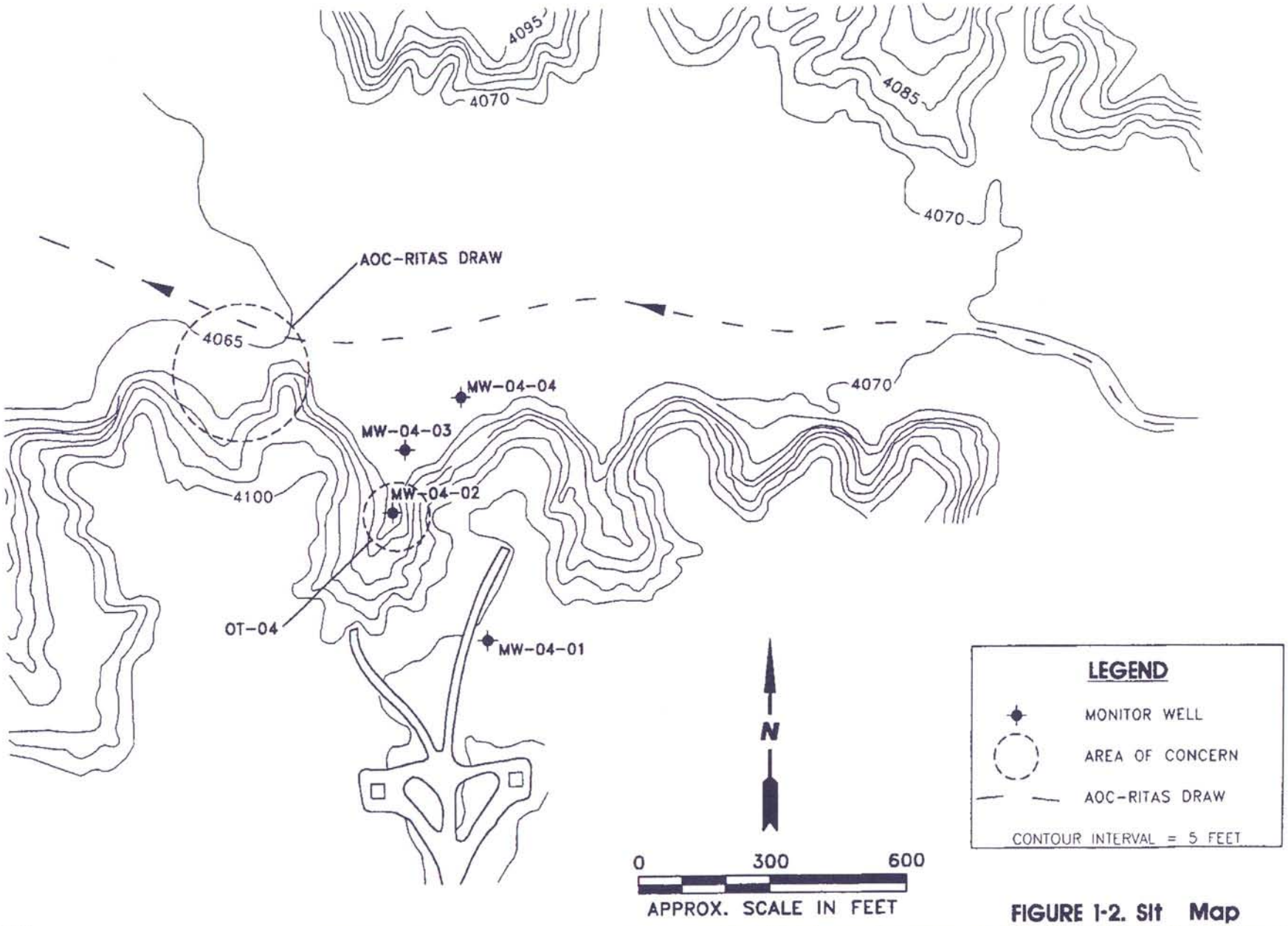


FIGURE 1-2. Site Map

0501-2

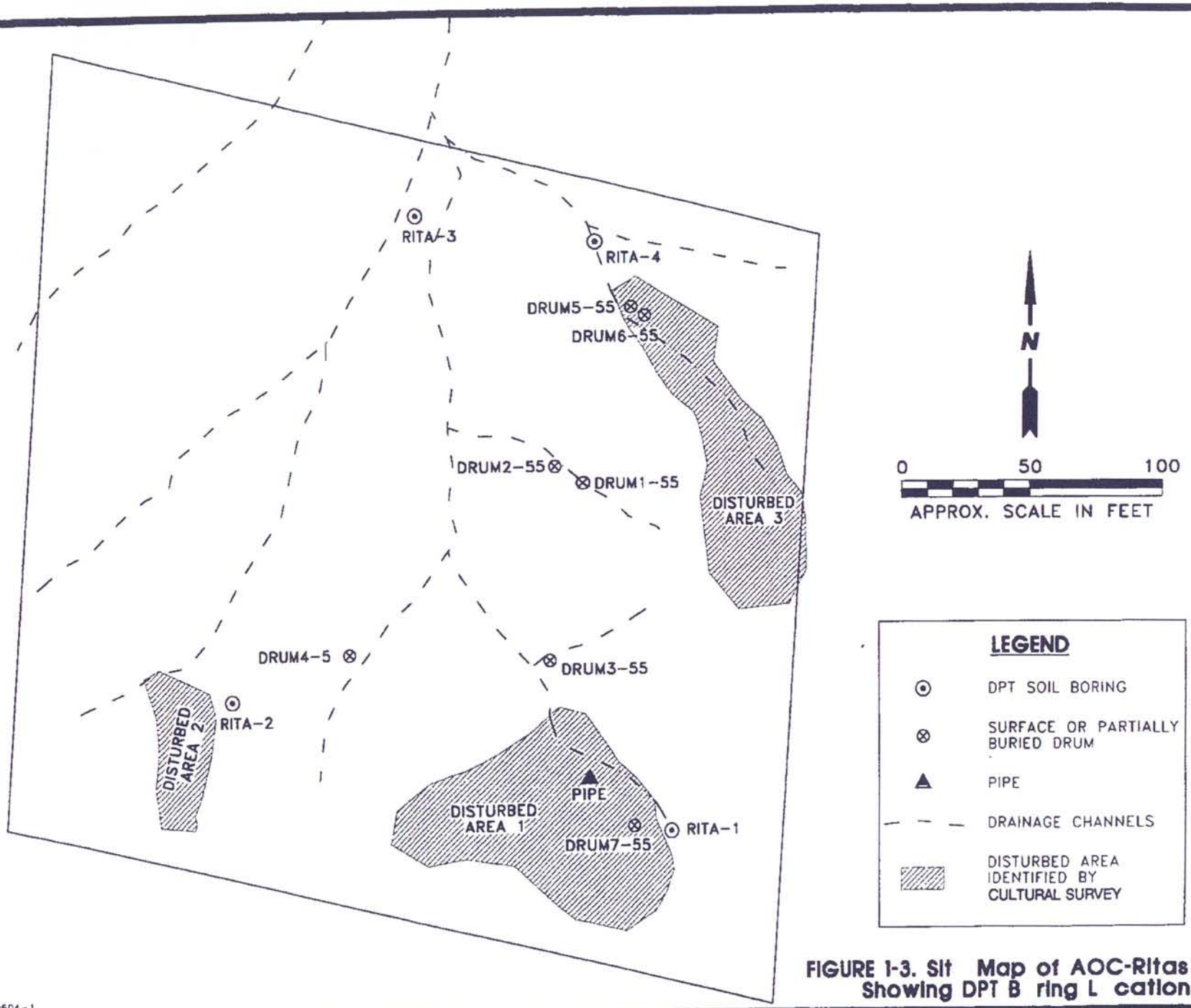


FIGURE 1-3. Sit Map of AOC-Ritas Draw Showing DPT B ring L cations

TABLE 1
SOIL ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-1-2	RITA-1-9	RITA-1-15	RITA-1-20	RITA-2-2	RITA-2-5	RITA-2-12	RITA-2-12-DUP	RITA-2-18	RITA-3-2	RITA-4-2	RITA-4-8
Depth (ft)	**2**	**9**	**15**	**20**	**2**	**5**	**12**	**12**	**18**	**2**	**2**	**8**
VOCs-EPA SW-846 Method 8260A (μg/kg)												
Acetone	15J,BL	16J	13J	10J	17J	11J	20	23	25	12J	16J	18J
Methylene Chloride	4.7J,BL	ND<5 0	ND<5 0	ND<5.0	ND<5 0	ND<5 0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5 0	ND<5 0
2-Butanone (MEK)	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	ND<20	8 4J
All others	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCS-EPA SW-846 Method 8270B (μg/kg)												
All analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitroaromatics and Nitramines-EPA SW-846 Method 8330 (μg/g)												
All analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TAL Metals-EPA SW-846 Methods 6010B/7471A (mg/kg)												
Arsenic	1 8B	2 0	1.5B	1 2B	ND<5.0	ND<1 0	17 4	9.1	1 1B	0 98B	0 80B	1 4B
Cadmium	ND<1 0	0 37B	0.39B	ND<1.0	ND<2 5	0.084B	0 17B	0 16B	0 13B	ND<1 0	0 17B	0 15B
Lead	1.9	5 1	5.3	0 39B	ND<1.5	0.71	0.79	ND<0.60	0 89	0 48B	2 0	1 2
Antimony	1.8B	1.5B	1 7B	1.9B	2.6B	ND<1.0	1 7B	1 6B	1 6B	1 6B	0 90B	1 7B
Selenium	ND<1 0	1 3	ND<1 0	ND<1 0	ND<2 5	ND<0 50	0 56B	0 53B	ND<1 0	ND<1 0	0 61	ND<1 0
Thallium	ND<2.0	1.1B	ND<2 0	ND<2.0	1 9B	ND<1 0	ND<2 0	ND<2 0	ND<2 0	ND<2.0	ND<1 0	ND<2 0
Silver	ND<2 0	ND<2 0	ND<2 0	ND<2 0	ND<2 0	ND<1 0	ND<2 0	0 75B	ND<2 0	ND<2 0	ND<1 0	ND<2 0
Aluminum	2,270	11,800	12,600	1,390	478	1,680	944	979	2,350	994	3,540	2,220
Barium	26 6	79 3	29 0	27.3	10.7	15 4	9 3	9 2	22.0	10.9	10 2	4 4
Beryllium	ND<0 40	0.61	0 67	ND<0.40	ND<0 40	0.11B	ND<0.40	ND<0 40	ND<0 40	ND<0 40	0 25	ND<0 40
Calcium	164,000	154,000	179,000	146,000	199,000	15,400	168,000	164,000	136,000	146,000	67,600	136,000

TABLE 1 (Concluded)
SOIL ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-1-2	RITA-1-9	RITA-1-15	RITA-1-20	RITA-2-2	RITA-2-5	RITA-2-12	RITA-2-12-DUP	RITA-2-18	RITA-3-2	RITA-4-2	RITA-4-8
Depth (ft)	2	9	15	20	2	5	12	12	18	2	2	8
TAL Metals-EPA SW-846 Methods 6010B/7471A (mg/kg) (continued)												
Cobalt	0 91B	3.5	4.1	ND<2.0	ND<2.0	0.46B	0 64B	1 3B	ND<2 0	ND<2 0	1 4	1 3B
Chromium	3 1	14 8	14 5	4 2	ND<2 0	3 9	1 8B	2 4	1 8B	1 5B	4 5	1 9B
Copper	1.4B	5.0	4 7	ND<4.0	ND<4 0	0 49B	0 78B	1.2B	ND<4 0	ND<4 0	1 9B	1 8B
Iron	326	2,240	6,680	1,190	888	1,160	3,940	5,200	1,480	569	3,960	2,500
Potassium	484B	3,150	3,280	325B	ND<1,000	388B	259B	355B	479B	208B	955	540B
Magnesium	2,830	7,290	5,600	735	611	764	468	471	1,090	718	2,530	2,600
Manganese	47 7	99 3	232	12 9	5.3	17 1	9 6	11 1	16.7	15 7	80 8	23 8
Sodium	ND<1,000	798B	1,560	ND<1,000	ND<1,000	ND<500	ND<1,000	ND<1,000	ND<1,000	480B	920	1,310
Nickel	2 4B	11.0	11.5	2.9B	ND<8 0	1 8B	ND<8 0	1.6B	1 5B	1.2B	3 9B	2 5B
Vanadium	8.5	21 0	17.5	2 4	1 1B	3.0	22 8	16.9	3.6	2.1	7 0	5 2
Zinc	6 2	25 8	28.4	3.8B	1 3B	3.1	2 6B	3 3B	4 9	3.3B	9 0	7 5
Mercury	ND<0 033	ND<0 033	ND<0.033	ND<0 033	ND<0 033	ND<0.033	ND<0 033	ND<0 033	ND<0 033	ND<0 033	ND<0 033	ND<0 033

<	Indicates compound not detected at or above the RL
B	Estimated result, result is less than RL
BL	Method blank contamination The associated method blank contains the target analyte at a reportable level
ft	Feet
J	Estimated result, result is less than RL
mg/kg	Milligrams per kilogram
ND	Not detected
RL	Reporting limit
SVOCs	Semivolatile organic compounds
TAL	Target Analyte List
µg/kg	Micrograms per kilogram
VOCs	Volatile organic compounds

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-3-GW-7	RITA-3-GWDP-7	RITA-4-GW-8
VOCs-EPA SW-846 Method 8260A (μg/L)			
Benzene	ND<1 0	ND<1 0	0 27J
Ethylbenzene	ND<1 0	ND<1 0	0 22J
2-Butanone (MEK)	ND<5 0	ND<5 0	1.2J
4-Methyl-2-pentanone	ND<5.0	ND<5 0	0 72J
Toluene	ND<1.0	ND<1 0	0 29J
Xylenes (total)	ND<1.0	ND<1.0	0.88J
All others	ND	ND	ND
SVOCS-EPA SW-846 Method 8270B (g/L)			
All analytes	ND	ND	ND
Nitroaromatics and Nitramines-EPA SW-846 Method 8330 (μg/L)			
All analytes	ND	ND	ND
TAL Metals-EPA SW-846 Methods 6010B/7470A (mg/L)			
Arsenic	0 032	0.029	0 017B
Cadmium	ND<0 010	0 0012B	ND<0 010
Lead	ND<0 014G	ND<0 015G	ND<0 014G
Antimony	0.034	0 036	0.032
Selenium	ND<0.026G	ND<0 023G	ND<0.017G
Thallium	ND<0 020	ND<0 020	ND<0 020
Silver	ND<0 10	ND<0.10	ND<0.050
Aluminum	ND<1 0	ND<1 0	ND<0 50
Barium	ND<0 10	ND<0 10	ND<0.050
Beryllium	ND<0 020	ND<0 020	ND<0 010
Calcium	828	823	799
Cobalt	ND<0 10	ND<0 10	ND<0 050
Chromium	ND<0 10	ND<0 10	ND<0.050
Copper	ND<0.20	ND<0.20	0.014B
Iron	ND<1 0	ND<1.0	0 63
Potassium	63 2	63 8	54.6
Magnesium	1,840	1,830	1,660
Manganese	0 13	0 11	0 36
Sodium	11,600	11,600	9,490

TABLE 2 (Concluded)
GROUNDWATER ANALYTICAL RESULTS
AOC-RITAS DRAW
HOLLOMAN AFB, NEW MEXICO
MAY 21, 1998

Sample ID	RITA-3-GW-7	RITA-3-GWDP-7	RITA-4-GW-8
TAL Metals-EPA SW-846 Methods 6010B/7470A (mg/L) (continued)			
Nickel	ND<0 40	ND<0 40	ND<0 20
Vanadium	ND<0 10	0 042B	ND<0 050
Zinc	ND<0.20	ND<0.20	ND<0.10
Mercury	ND<0 00020	ND<0 00020	ND<0.00020

<	Indicates compound not detected at or above the RL.
B	Estimated result; result is less than RL
G	Elevated reporting limit The reporting limit is elevated due to matrix interference.
J	Estimated result, result is less than RL
mg/L	Milligrams per liter
ND	Not detected
RL	Reporting limit
SVOCs	Semivolatile organic compounds
TAL	Target Analyte List
μg/L	Micrograms per liter
VOCs	Volatile organic compounds

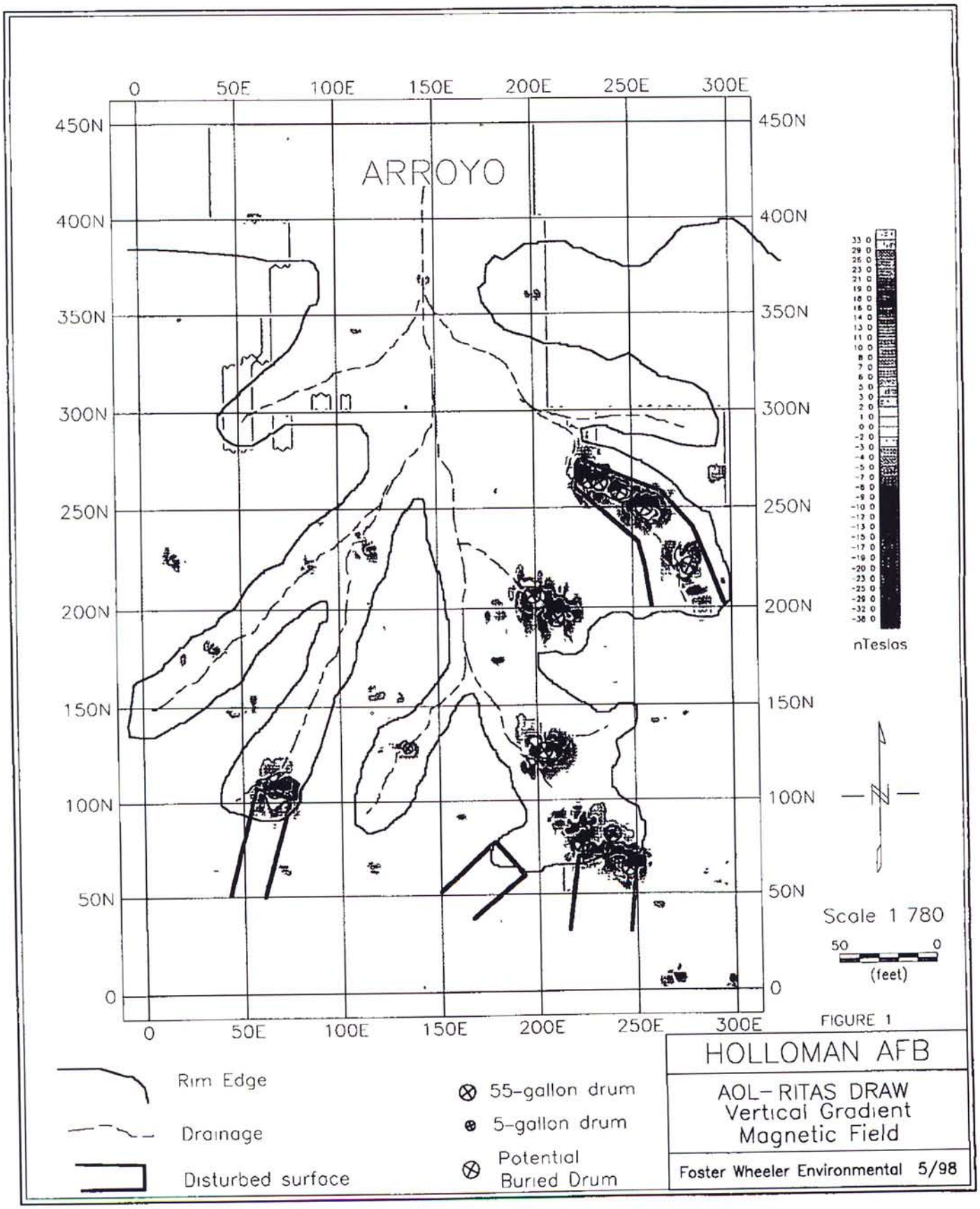


FIGURE 1

HOLLOMAN AFB

AOL- RITAS DRAW
Vertical Gradient
Magnetic Field

Foster Wheeler Environmental 5/98

Appendix A-3-2 (DP-62)

Portions of the:

RCRA Facility Investigation Report ERP Site No. DP-62, Ritas Draw Holloman Air Force Base, New Mexico

Bhate Environmental Associates, Inc., August 2004

RCRA FACILITY INVESTIGATION REPORT

ERP SITE NO. DP-62, RITAS DRAW
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

49CES/CEV
Holloman Air Force Base
New Mexico

Under Contract To:

U.S. Army Corps of Engineers
Omaha, Nebraska
Under Contract No. DACA45-03-D-0012
Delivery Order No. 05, WAD 03

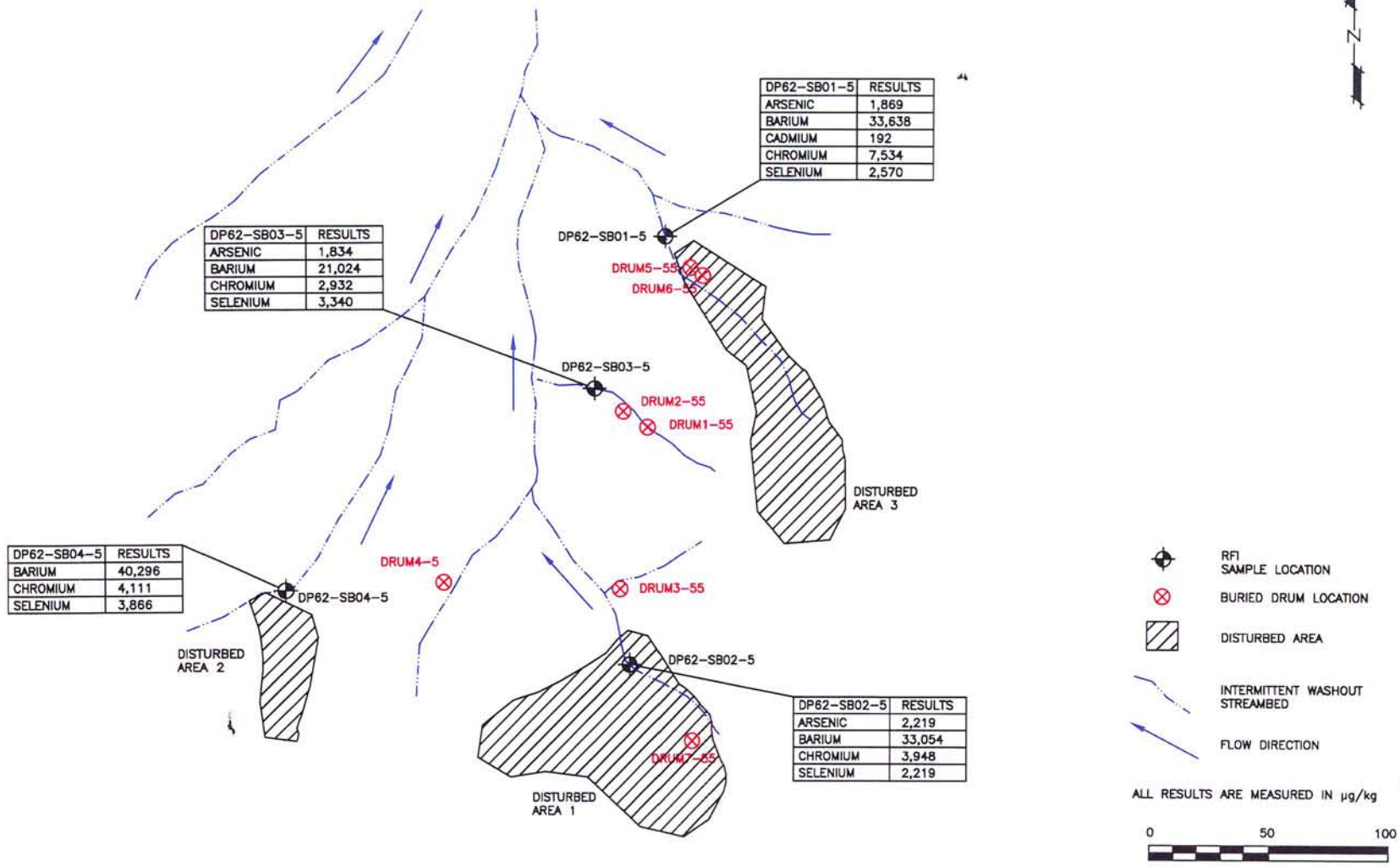
Prepared by:

Bhate Environmental Associates, Inc.
1608 13th Avenue South, Suite 300
Birmingham, Alabama 35205

Bhate Project No. 9030024.03

August 2004

RITAS DRAW



DP62-SB01-5	RESULTS
ARSENIC	1,869
BARIUM	33,638
CADMIUM	192
CHROMIUM	7,534
SELENIUM	2,570

DP62-SB03-5	RESULTS
ARSENIC	1,834
BARIUM	21,024
CHROMIUM	2,932
SELENIUM	3,340

DP62-SB04-5	RESULTS
BARIUM	40,296
CHROMIUM	4,111
SELENIUM	3,866

DP62-SB02-5	RESULTS
ARSENIC	2,219
BARIUM	33,054
CHROMIUM	3,948
SELENIUM	2,219

BHATE
Environmental Engineers and Scientists

ANALYTICAL RESULTS FOR METALS IN SOIL SAMPLES
DP-62 RITAS DRAW

PROJECT NO.	SCALE	DATE	DRAWN BY:	CHECKED BY:
9030024	AS SHOWN	05/26/04	SRH/MRM	–
			DRAWING NO: HAFBDP62Fig5(NEW)	

Figure 5

Holloman Air Force Base
New Mexico

TABLE 4
VOC and SVOC CONCENTRATIONS IN SOIL SAMPLES
DP-62 RITAS DRAW
HOLLOMAN AFB, NEW MEXICO

Constituent of Concern	Sample ID				
	DP62-SB01-5	DP62-SB01-5A	DP62-SB02-5	DP62-SB03-5	DP62-SB04-5
Date Sampled	**3/31/2004**	**3/31/2004**	**3/31/2004**	**3/31/2004**	**3/31/2004**
Volatile Organic Compounds (VOCs)	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)	ND	ND	ND	ND	ND

Notes:

1. All results measured in mg/kg
2. ND - Not detected below detection limit
3. VOCs were analyzed by EPA Method 8260B
4. SVOCs were analyzed by EPA Method 8270C
5. DP62-SB01-5A is the field duplicate sample

TABLE 5
RCRA METALS and TOTAL PETROLEUM HYDROCARBON CONCENTRATIONS IN SOIL SAMPLES
DP-62 RITAS DRAW
HOLLOMAN AFB, NEW MEXICO

Constituent of Concern	Sample ID					SSL (µg/kg)
	DP62-SB01-5	DP62-SB01-5A	DP62-SB02-5	DP62-SB03-5	DP62-SB04-5	Residential
Date Sampled	3/31/2004	3/31/2004	3/31/2004	3/31/2004	3/31/2004	
Metals (µg/kg)						
Arsenic	1,869	1,530	2,219	1,834	<1,000	3.90E+03
Barium	33,638	48,356	33,054	21,024	40,296	5.45E+06
Cadmium	192	<500	<500	<500	<500	7.41E+04
Chromium*	7,534	8,503	3,948	2,932	4,111	2.34E+05
Lead	<500	<500	<500	<500	<500	4.00E+05
Mercury	<140	<140	<140	<140	<140	1.00E+08
Selenium	2,570	1,764	2,219	3,340	3,866	3.91E+05
Silver	<500	<500	<500	<500	<500	3.91E+05
Carbon Chains (µg/kg) (Total Petroleum Hydrocarbons)						
C06 - C10	<3,000	<3,000	<3,000	<3,000	<3,000	NA
C10 - C22	<3,000	<3,000	<3,000	<3,000	<3,000	NA
C22 - C36	<5,000	<5,000	<5,000	<5,000	<5,000	NA
Total (C6 - C36)	<4,000	<4,000	<4,000	<4,000	<4,000	893,333

Notes:

1. µg/kg - Micrograms per kilogram
2. Concentrations are on dry-weight basis
3. Soil screening levels (SSL) for C10 - C36 are averaged TPH values of Diesel#2/crankcase oil, #3 and #6 fuel oil, and Kerosene and jet fuel in the NMED TPH Screening Guidelines.
4. SSLs are based on ingestion, outdoor inhalation, and dermal contact.
5. * SSLs for chromium were calculated conservatively based on chromium (VI) toxicity values.
6. The lab concentrations were reported on a wet-weight basis. The detected concentrations were converted to dry-weight basis using the following relationship.

$$C_d = C_w\left(1+\frac{\theta_w}{\rho_b}\right)$$

where,

C_d = concentration on dry-weight basis
C_w = concentration on wet-weight basis
θ_w = water content (0.26 g/cm^3-soil)
ρ_b = bulk density of soil (1.55 g/cm^3)

7. DP62-SB01-5A is the field duplicate sample
8. Metals were analyzed by EPA Method 6010B/7410A
9. TPH was analyzed by EPA Method 8015

Appendix A-3-3 (DP-62)

Portions of the:

NMED No Further Action Notice of Approval for ERP Site No. DP-62 Holloman Air Force Base, NM

New Mexico Environment Department, November 2005

State of New Mexico
ENVIRONMENT DEPARTMENT
Water and Waste Management Division
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502-6110
Telephone (505) 827-1758
Fax (505) 827-0310
www.nmenv.state.nm.us

BILL RICHARDSON
GOVERNOR

RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

November 29, 2005

Ms. Debbie Hartell
Chief, Environmental Flight
49 CES/CEV
550 Tabosa Avenue
Holloman AFB, NM 88330-8458

RE: FINAL PERMIT DECISION: CLASS III PERMIT MODIFICATION FOR NO FURTHER ACTION STATUS FOR 7 SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN
HOLLOMAN AIR FORCE BASE EPA ID# NM65721224422
HWB-HAFB-04-021

Dear Ms. Hartell:

This letter notifies you of a final permit decision by the New Mexico Environment Department (NMED) to modify Module IV of the Resource Conservation and Recovery Act (RCRA) Permit NM65721224422 issued to the U.S. Department of Defense/Holloman Air Force Base (DoD/HAFB). DoD/HAFB requested this modification on November 30, 2004. The modification consists of the approval of No Further Action (NFA) status for seven (7) Solid Waste Management Units (SWMUs) located at HAFB near Alomogordo, New Mexico. The modification is effective thirty (30) days after the date of this letter.

Enclosed is the modification in the form of changes to Tables A and B, Module IV, Appendix IV-A. Table A lists SWMUs and Areas of Concern (AOCs) subject to Corrective Action, which no longer contains the subject 7 sites approved for NFA status herein. Table B lists SWMUs and AOCs not requiring corrective action. Also enclosed is a list (Table 1) of the 7 sites approved for NFA status by this action.

In accordance with 20.4.1 NMAC, NMED provided public notice and conducted a 45-day public comment period from September 30 through November 15, 2005, regarding this modification request. No comments were received from the public during the comment period.

If you have any questions regarding this decision, please contact Mr. Cornelius Amindyas of my staff at (505) 284-5086.

Sincerely,

Cindy Padilla

Cindy Padilla
Director
Permits Management Program

CP:ca (HWB)

Enclosures

cc: J. Bearzi, NMED HWB
W. Moats, NMED HWB
C. Amindyas, NMED HWB
L. King, EPA, 6PD-N
File: Reading and HAFB 05

Table 1. List of SWMUs approved for NFA.

SERIAL NO.	SWMU	ERP SITE ID	UNIT NAME
10	**106**	**LF-01**	**Main Base Landfill**
26	**136**	**N/A**	**Building 1119 Washrack Drainage Area**
28	**139**	**N/A**	**Lake Holloman**
29	**140**	**N/A**	**Lake Stinky**
32	**166**	**SD-25**	**MOBSS Drainage Lagoon**
45	**AOC-FST837**	**N/A**	**Building 837 Fuel Septic Tank**
62	**AOC-RD**	**DP-62**	**Rita's Draw Disposal Pit**

Appendix A-4-1 (OT-37)

Portions of the:

Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites Holloman Air Force Base, NM

Radian Corporation, June 1992

RADIAN
CORPORATION

DCN 92-269-004-16-07
RCN 269-004-16-06

(Mailing Address)
P.O. Box 201088
Austin, TX 78720-1088
(Shipping Address)
8501 North Mopac Blvd.
Austin, TX 78759
(512) 454-4797

REMEDIAL INVESTIGATION (RI) REPORT

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NM

Volume I

DRAFT FINAL

Prepared for:

49 SG/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 North MoPac Blvd.
P.O. Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-89-D-0515 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1992

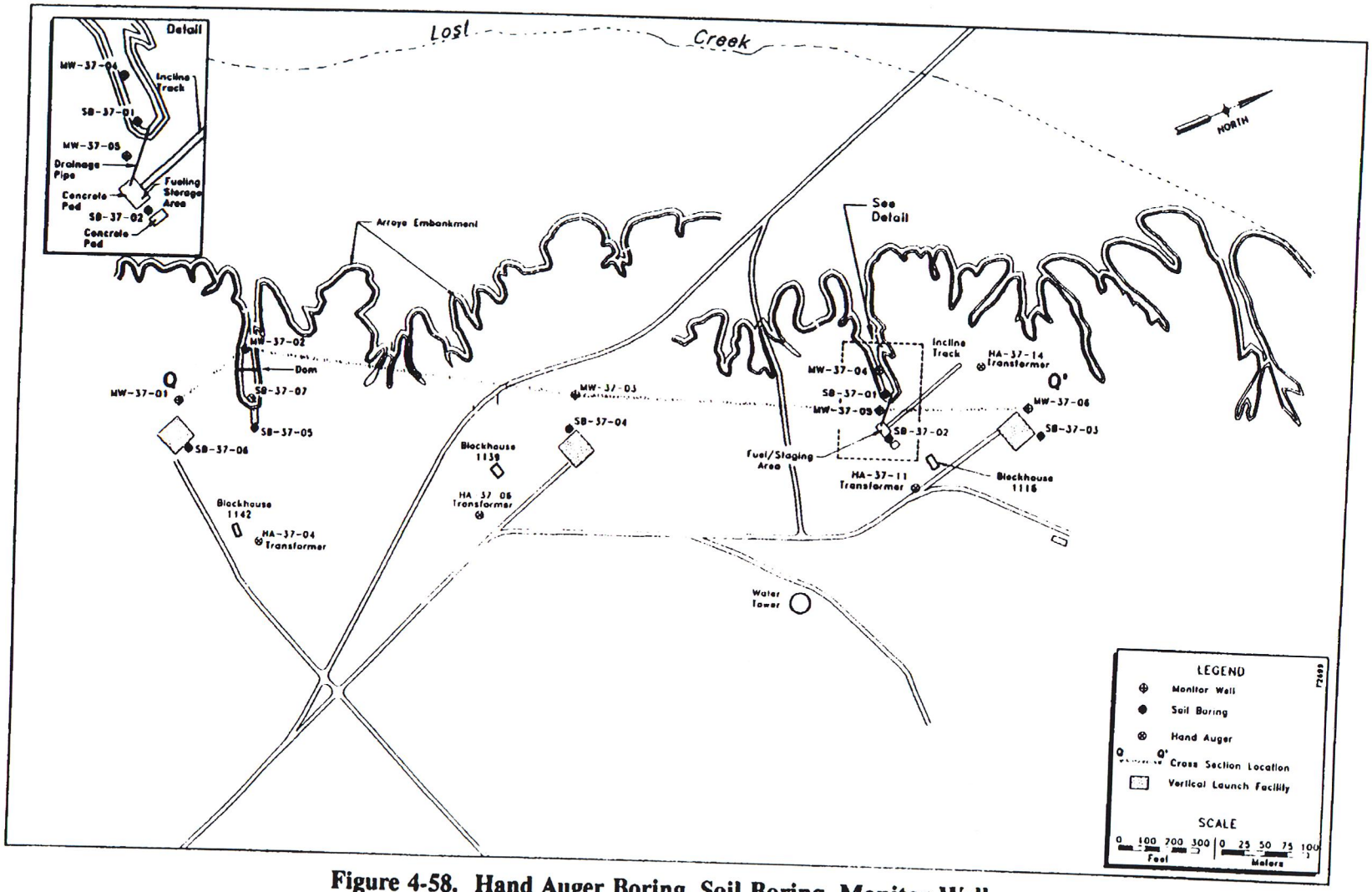


Figure 4-58. Hand Auger Boring, Soil Boring, Monitor Well, and Cross Section Locations for Site 37

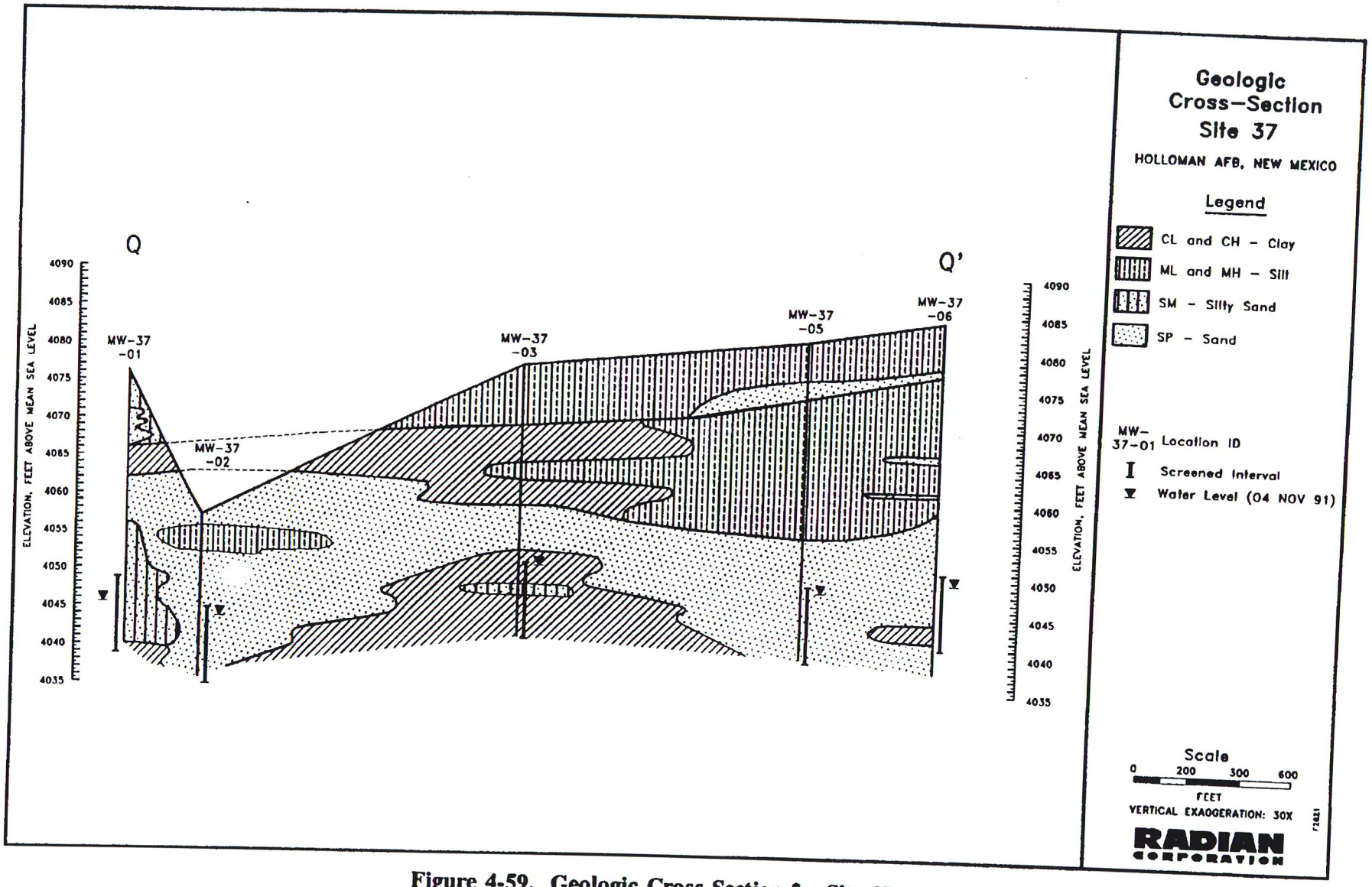


Figure 4-59. Geologic Cross Section for Site 37

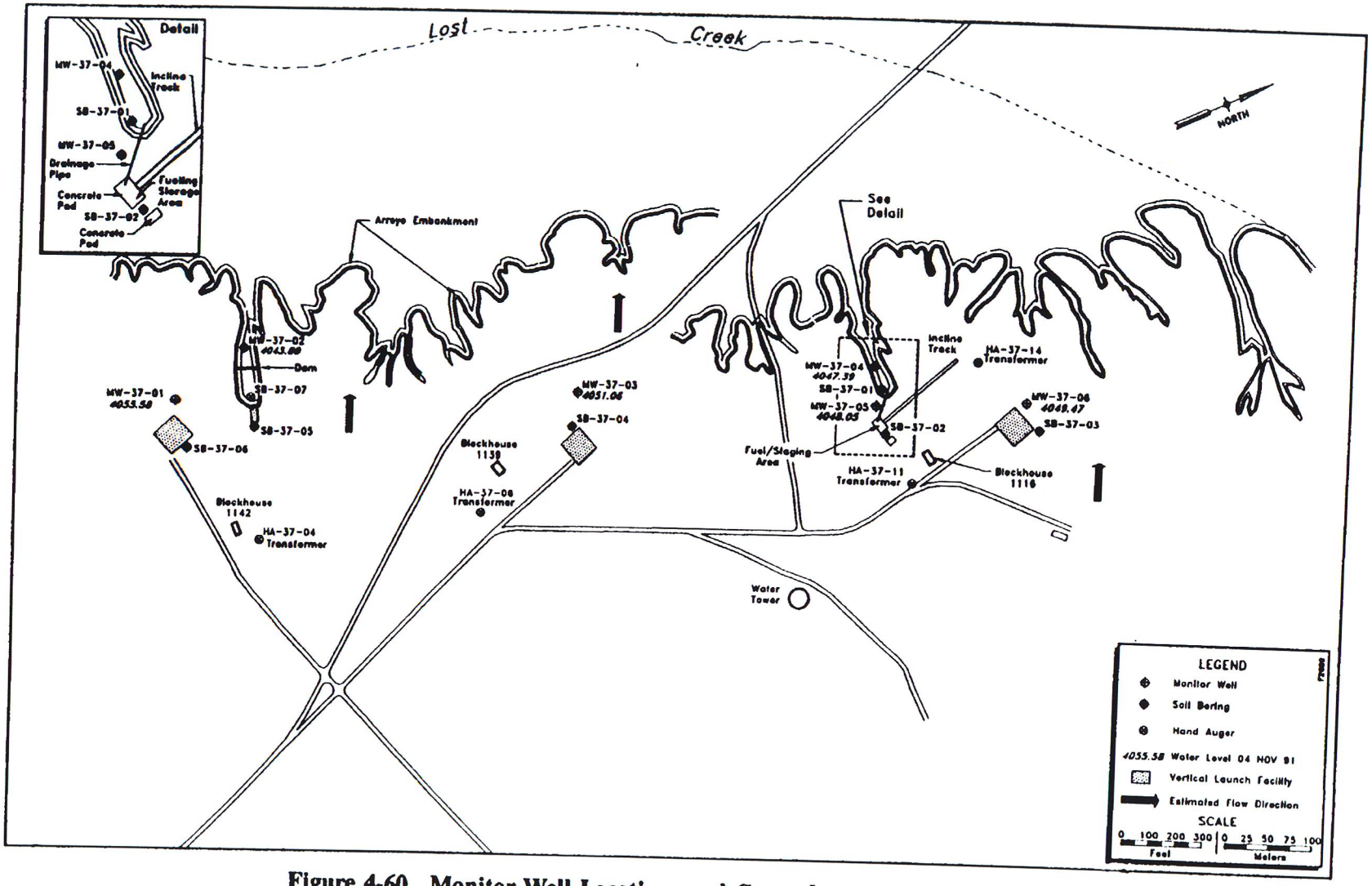


Figure 4-60. Monitor Well Locations and Groundwater Elevations for Site 37

Table 4-77

Concentrations of PCBs and Total Recoverable Petroleum Hydrocarbons in Site 37 Step-Down Transformer Station Samples

			EPA 418.1 - TRPH (mg/kg)		SW8080 - PCBs (ug/kg)			
					PCB-1254		PCB-1260	
Location	Sample ID	Depth	Result	(DL)	Result	(DL)	Result	(DL)
HA-37-04	91JULH037-018	0 - 2 ft	30600	(10.3)	ND	(12)	ND	(12)
HA-37-06	91JULH037-020	0 - 2 ft	141	(10.5)	9.2 J	(12)	ND	(12)
HA-37-11	91JULH037-025	0 - 2 ft	79.70	(10.1)	ND	(12)	80 C	(12)
HA-37-14	91JULH037-028	0 - 2 ft	21.60 @	(10.2)	ND	(310)	3200 C	(310)

NOTE: Table presents only constituents detected in soil at this site.
ND = Not Detected, at the reported detection limit.
J = Detected below the detection limit.
C = Presence and quantitation of analyte confirmed by second column analysis.

Table 4-78

Concentrations of Inorganic Analytes in Site 37 Soil Samples

Location	SB-37-01				SB-37-02			
Sample ID / Depth	[illegible] 4.5 - 4.5 ft		[illegible] 10 - 12 ft		[illegible] 2.5 - 4.5 ft		[illegible] 10 - 12 ft	
Analyte	Result	(D.L.)	Result	(D.L.)	Result	(D.L.)	Result	(D.L.)
SW6010 - Metals (mg/kg)								
Beryllium	0.78 @	(0.41)	ND	(0.91)	ND	(0.80)	ND	(0.39)
Cadmium	ND	(1.0)	ND	(2.3)	ND	(2.0)	ND	(0.97)
Chromium	13	(2.0)	9.6 @	(4.5)	4.4 @	(4.0)	8.0 @	(1.9)
Copper	ND	(4.1)	ND	(9.1)	ND	(8.0)	ND	(3.9)
Nickel	10 @	(4.1)	ND	(9.1)	ND	(8.0)	ND	(3.9)
Zinc	32	(4.1)	19 @	(9.1)	23 @	(8.0)	16 @	(3.9)
SW7060 - Arsenic (mg/kg)	3.0	(0.45)	1.5 @	(0.48)	1.4 @	(0.42)	0.88 @	(0.44)
SW7421 - Lead (mg/kg)	6.5	(1.3)	2.4	(0.36)	1.6	(0.32)	5.9 @	(1.3)

Table 4-78

(Continued)

Location:	SB-37-03				SB-37-04			
Sample ID: Depth:	91JUL1H037-003 0 - 2 ft		91JUL1H037-006 7.5 - 9.5 ft		91JUL1H037-007 5 - 7 ft		91JUL1H037-008 15 - 17 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	ND	(0.77)	ND	(0.35)	ND	(0.40)	ND	(0.75)
Cadmium	ND	(1.9)	ND	(0.87)	ND	(0.99)	ND	(1.9)
Chromium	5.5 @	(3.8)	2.6 @	(1.7)	4.7 @	(2.0)	14 @	(3.8)
Copper	14 @	(7.7)	ND	(3.5)	ND	(4.0)	ND	(7.5)
Nickel	ND	(7.7)	ND	(3.5)	4.0 @	(4.0)	14 @	(7.5)
Zinc	26 @	(7.7)	5.8 @	(3.5)	12 @	(4.0)	30 @	(7.5)
SW7060 - Arsenic (mg/kg)	1.6 @	(0.47)	1.2 @	(0.43)	1.8 @	(0.41)	2.6	(0.41)
SW7421 - Lead (mg/kg)	14	(0.35)	1.1 @	(0.32)	1.6	(0.30)	3.7	(0.30)

Table 4-78

(Continued)

Location	SB-37-05				SB-37-06			
Sample ID Depth	91JUL1M37-005 [illegible]		91JUL1M37-010 10 - 12 ft		91JUL1M37-011 2.5 - 4.5 ft		91JUL1M37-013 25 - 27 ft	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	ND	(0.82)	ND	(0.45)	ND	(0.80)	ND	(0.51)
Cadmium	4.7 @	(2.1)	ND	(1.1)	ND	(2.0)	ND	(1.3)
Chromium	6.5 @	(4.1)	2.9 @	(2.2)	ND	(4.0)	5.8 @	(2.5)
Copper	ND	(8.2)	ND	(4.5)	ND	(8.0)	ND	(5.1)
Nickel	ND	(8.2)	ND	(4.5)	ND	(8.0)	5.7 @	(5.1)
Zinc	16 @	(8.2)	4.7 @	(4.5)	ND	(8.0)	15 @	(5.1)
SW7060 - Arsenic (mg/kg)	2.3	(0.45)	1.4 @	(0.44)	1.2 @	(0.48)	1.8 @	(0.39)
SW7421 - Lead (mg/kg)	3.8	(0.34)	0.70 @	(0.33)	1.9	(0.28)	0.51 @	(0.21)

Table 4-78

(Continued)

Location:	SB-37-07			
Sample ID: Depth:	91JUL[illegible]37-013 2 - 4 ft		91JUL[illegible]37-014 3 - 5 ft	
Analyses	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)				
Beryllium	0.57 @	(0.40)	ND	(0.37)
Cadmium	ND	(1.0)	ND	(0.92)
Chromium	10	(2.0)	4.0 @	(1.8)
Copper	6.1 @	(4.0)	4.1 @	(3.7)
Nickel	8.0 @	(4.0)	ND	(3.7)
Zinc	26	(4.0)	9.6 @	(3.7)
SW7060 - Arsenic (mg/kg)	3.5	(0.45)	1.2 @	(0.38)
SW7421 - Lead (mg/kg)	14	(1.2)	1.7	(0.26)

NOTE: Table presents only constituents detected in soil at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.

Table 4-79

Concentrations of Organic Analytes in Site 37 Soil Samples

Location:	SB-37-01				SB-37-02			
Sample ID: Depth:	91JUL1H037-001 2.5 - 4.5 ft		91JUL1H037-002 10 - 12 ft		91JUL1H037-003 2.5 - 4.5 ft		91JUL1H037-004 10 - 12 ft	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	ND	(11.0)	ND	(12.3)	ND	(12.0)	10.8 @	(10.7)
SW8240 - Volatile Organics (µg/kg)								
1,1-Dichloroethene	ND	(120)	25 J	(120)	ND	(120)	ND	(130)
Ethyl benzene	ND	(120)	ND	(120)	ND	(120)	3.0 J	(130)
Methylene chloride	370 B@	(120)	450 B@	(120)	1400 B	(120)	110 JB	(130)
Tetrachloroethene	ND	(120)	ND	(120)	ND	(120)	33 J	(130)
Toluene	7.9 J	(120)	7.8 JB	(120)	10 JB	(120)	8.9 J	(130)
Xylenes	ND	(120)	ND	(120)	ND	(120)	8.9 J	(130)
Location:	SB-37-03				SB-37-04			
Sample ID: Depth:	91JUL1H037-005 0 - 2 ft		91JUL1H037-006 7.5 - 9.5 ft		91JUL1H037-007 5 - 7 ft		91JUL1H037-008 15 - 17 ft	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	3860	(122)	ND	(11.2)	ND	(12.2)	ND	(13.0)
SW8240 - Volatile Organics (µg/kg)								
1,1-Dichloroethene	ND	(120)	ND	(110)	.79 J	(120)	ND	(130)
Ethyl benzene	ND	(120)	ND	(110)	ND	(120)	ND	(130)
Methylene chloride	130 B@	(120)	260 B@	(110)	3.731 JB	(120)	190 B@	(130)
Tetrachloroethene	ND	(120)	ND	(110)	ND	(120)	ND	(130)
Toluene	8.5 J	(120)	9.4 J	(110)	.256 J	(120)	7.6 J	(130)
Xylenes	ND	(120)	ND	(110)	ND	(120)	ND	(130)

Table 4-79

(Continued)

Location:	SB-57-05				SB-57-06			
Sample ID: Depth:	91JUL.H037-009 0 - 2 ft		91JUL.H037-010 10 - 12 ft		91JUL.H037-011 2.5 - 4.5 ft		91JUL.H037-012 25 - 27 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	16.0 @	(12.0)	ND	(12.3)	ND	(12.9)	ND	(14.1)
SW8240 - Volatile Organics (µg/kg)								
1,1-Dichloroethene	ND	(120)	ND	(130)	ND	(130)	ND	(140)
Ethyl benzene	ND	(120)	ND	(130)	ND	(130)	ND	(140)
Methylene chloride	530 B@	(120)	110 JB	(130)	96 JB	(130)	54 JB	(140)
Tetrachloroethene	ND	(120)	ND	(130)	ND	(130)	ND	(140)
Toluene	9.2 J	(120)	7.8 J	(130)	7 JB	(130)	6.9 JB	(140)
Xylenes	ND	(120)	ND	(130)	ND	(130)	ND	(140)

Table 4-79

(Continued)

Location	SB-37-07			
Sample ID: Depth	[illegible]		[illegible]	
Analyte	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	48.2 @	(11.6)	22.3 @	(15.2)
SW8240 - Volatile Organics (µg/kg)				
1,1-Dichloroethene	ND	(120)	ND	(110)
Ethyl benzene	ND	(120)	ND	(110)
Methylene chloride	780	(120)	56 JB	(110)
Tetrachloroethene	ND	(120)	ND	(110)
Toluene	10 JB	(120)	ND	(110)
Xylenes	ND	(120)	ND	(110)

NOTE: Table presents only constituents detected in soil at this site.
ND = Not Detected, at the reported detection limit.
J = Detected below the detection limit.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.
@ = Measured result is less than five times the detection limit.

Table 4-80

Concentrations of Inorganic Analytes in Site 37 Groundwater Samples

Location: Sample ID:	MW-37-01 37-01-01		MW-37-02 37-02-01		MW-37-03 37-03-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	11000	(10)	14000	(10)	10000	(10)
EPA 300.0 - Chloride (mg/L)	3000	(26)	5300	(26)	2500	(26)
EPA 300.0 - Sulfate (mg/L)	4200	(5.0)	3400	(5.0)	4700	(5.0)
EPA 340.2 - Fluoride (mg/L)	1.5	(0.10)	1.3	(0.10)	1.6	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	48	(1.1)	66	(1.1)	48	(1.1)
EPA 365.2 - Total Phosphorus (mg/L)	0.10	(0.020)	0.14	(0.020)	0.19	(0.020)
SW6010 - Metals (mg/L)						
Antimony	0.11 @	(0.10)	0.12 @	(0.10)	0.11 @	(0.10)
Cadmium	ND	(0.0050)	ND	(0.0050)	0.0055 @	(0.0050)
Chromium	ND	(0.010)	ND	(0.010)	0.011 @	(0.010)
Copper	0.032 Z@	(0.020)	ND Z	(0.020)	0.024 Z@	(0.020)
Nickel	ND	(0.020)	ND	(0.020)	0.029 @	(0.020)
Zinc	ND	(0.020)	ND	(0.020)	0.048 @	(0.020)
SW7060 - Arsenic (mg/L)	ND	(0.016)	ND	(0.016)	ND	(0.016)
SW7421 - Lead (mg/L)	ND	(0.0030)	ND	(0.0030)	ND	(0.0030)
SW7740 - Selenium (mg/L)	ND	(0.020)	ND	(0.020)	ND	(0.020)

Table 4-80

(Continued)

Location: Sample ID:	MW-37-04 37-04-01		MW-37-05 37-05-01		MW-37-06 37-06-01	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	13000	(10)	12000	(10)	17000	(10)
EPA 300.0 - Chloride (mg/L)	4900	(26)	3900	(26)	6800	(26)
EPA 300.0 - Sulfate (mg/L)	3100	(5.0)	4000	(5.0)	3700	(5.0)
EPA 340.2 - Fluoride (mg/L)	1.7	(0.10)	2.0	(0.10)	1.5	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	75	(1.1)	75	(1.1)	74	(1.1)
EPA 365.2 - Total Phosphorus (mg/L)	0.19	(0.020)	0.32	(0.020)	0.26	(0.020)
SW6010 - Metals (mg/L)						
Antimony	0.12 @	(0.10)	ND	(0.40)	ND	(0.10)
Cadmium	ND	(0.0050)	ND	(0.020)	ND	(0.0050)
Chromium	ND	(0.010)	0.048 @	(0.040)	0.012 @	(0.010)
Copper	ND Z	(0.020)	0.28 @	(0.080)	ND	(0.020)
Nickel	ND	(0.020)	ND	(0.080)	0.028 @	(0.020)
Zinc	ND	(0.020)	0.12 @	(0.080)	0.030 @	(0.020)
SW7060 - Arsenic (mg/L)	ND	(0.016)	0.016 @	(0.016)	ND	(0.016)
SW7421 - Lead (mg/L)	ND	(0.0030)	0.011 @	(0.0030)	0.0044 @	(0.0030)
SW7740 - Selenium (mg/L)	0.016 @	(0.010)	ND	(0.010)	ND	(0.010)

NOTE: Table presents only constituents detected in groundwater at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.
Z = SW6010, SW7421--Analyte detected in method blank.

Table 4-81

Concentrations of Organic Analytes in Site 37 Groundwater Samples

Location: Sample ID:	MW-37-01 37-01-01		MW-37-02 37-02-01		MW-37-03 37-03-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)
SW8240 - Volatile Organics (μg/L)						
1,1,2,2-Tetrachloroethane	ND	(5.0)	ND	(5.0)	ND	(5.0)
Acetone	ND	(100)	ND	(100)	ND	(100)
Bromodichloromethane	2.3 J	(5.0)	ND	(5.0)	ND	(5.0)
Chloroform	7.4 @	(5.0)	1.9 J	(5.0)	6.3 @	(5.0)
Methylene chloride	18 B@	(5.0)	17 B@	(5.0)	1.6 JB	(5.0)
Location: Sample ID:	MW-37-04 37-04-01		MW-37-05 37-05-01		MW-37-06 37-06-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)
SW8240 - Volatile Organics (μg/L)						
1,1,2,2-Tetrachloroethane	ND	(5.0)	ND	(5.0)	0.59 J	(5.0)
Acetone	ND	(100)	ND	(100)	6.0 J	(100)
Bromodichloromethane	1.2 J	(5.0)	ND	(5.0)	ND	(5.0)
Chloroform	3.4 J	(5.0)	5.0 @	(5.0)	1.3 J	(5.0)
Methylene chloride	9.1 B@	(5.0)	ND	(5.0)	11 B@	(5.0)

NOTE: Table presents only constituents detected in groundwater at this site.
ND = Not Detected, at the reported detection limit.
J = Detected below the detection limit.
@ = Measured result is less than five times the detection limit.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.

Table 4-82

Soil and Groundwater Analytes Detected Above Risk-Based Action Levels at Site 37

Analyte	Location ID	Result		Action Level
Soil Results (mg/kg)				
Beryllium	SB-37-01	0.78	@	0.2
Beryllium	SB-37-07	0.57	@	0.2
PCB-1260	HA-37-14	3.2	C	0.09
Groundwater Results (mg/L)				
Antimony	MW-37-01	0.11	@	0.01
Antimony	MW-37-02	0.12	@	0.01
Antimony	MW-37-03	0.11	@	0.01
Antimony	MW-37-04	0.12	@	0.01
Arsenic	MW-37-05	0.016	@	0.01
Cadmium	MW-37-03	0.0055	@	0.005
Chloroform	MW-37-01	0.0074	@	0.006
Chloroform	MW-37-03	0.0063	@	0.006
Fluoride	MW-37-05	2		2
Methylene chloride[a]	MW-37-01	0.018	B@	0.005
Methylene chloride[a]	MW-37-02	0.017	B@	0.005
Methylene chloride[a]	MW-37-04	0.0091	B@	0.005
Methylene chloride[a]	MW-37-06	0.011	B@	0.005

Note: Result units were changed to match action level units for this table.

@ = Measured result is less than five times the detection limit.
C = Presence and quantitation of analyte confirmed by second column analysis.
[a] Methylene chloride was determined to be a laboratory contaminant in a QA/QC review and is, therefore, not considered to be above the action level in samples from the site.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.

DRILLING LOG

HOLE NO. SB-37-01

F2402

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688488.57(Y), 538891.40(X)
9. SURFACE ELEVATION	4070.22
10. DATE STARTED	26 SEP 91
11. DATE COMPLETED	26 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	20 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILTY SAND: light brown (5YR 6/4), dry, poorly graded, crumbly, soft. (SM)	HS=0.0ppm			1,1,3,2	1.7/2.0 ft
	2	tan (10YR 8/2), caliche at 2).0 ft.	HS=0.0ppm		91JULH037-D01	4,13,31,48	2.0/2.0 ft
	3						
	4	CLAYEY SILT: brown (5YR 5/6), firm/hard sample, gypsum crystals/spots, white spots, moist. (MH)					
	5		HS=0.0ppm			7,17,21,30	2.0/2.0 ft
	6						
	7		HS=0.0ppm			7,17,18,21	2.0/2.0 ft
	8	SILTY SAND: tan (10YR 8/2) to light brown orange (5YR 8/4), some caliche, dry, crumbly, poorly graded. (SM)					
	9						

DRILLING LOG

HOLE NO. SB-37-01

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
			HS=0.0ppm		91JULH037 -002	9,50+	1.0/2.0 ft
	11	SAND: clean, brown and olive, mottled, hard (not really caliche), crumbly, dry to slightly moist. (SP)					
	12						
	13						
	14						
	15	CLAYEY SILT: brown (5YR 5/6), high plasticity, white spots/streaks, olive zone above sand. (MH)	HS=0.0ppm			4,5,17,27	
	16						
	17	SAND: clean, fine to very fine, almost white, moist. (SP)					
	18						
	19						
	20	SAND, as above: tan (5YR 8/4).				6,27,39, 50+	TD= 20.0 ft
	21						
	22						
	23						
	24						
	25						
	26						
	27						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-37-01

F2402

DRILLING LOG

HOLE NO. SB-37-02

F2409

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VARTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688436.70(Y), 539049.78(X)
9. SURFACE ELEVATION	4082.57
10. DATE STARTED	26 SEP 91
11. DATE COMPLETED	26 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	25 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
						1,5,2,9	no sample, no recovery
	1						
	2						
	3	SILT: very pale orange (10YR 8/2), low plasticity, dry, white specks. (ML)	HS=0.0ppm		91JULH037 -003	10,22,22, 32	8.0/2.0 ft
	4						
	5	SILT, as above. (ML)	HS=0.0ppm			30,33,29, 24	1.7/2.0 ft
	6						
	7						
	8	SILT, as above: pale yellowish-brown (10YR 6/2). (ML)	HS=0.0ppm			28,25,26, 17	1.8/2.0 ft
	9						

DRILLING LOG

HOLE NO. SB-37-02

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILT, as above. (ML)	HS=0.0ppm		91JULH037-004	17,9,16,11	1.7/2.0 ft
	11	SAND: light brown (5YR 6/4), fine to very fine grained, poorly graded, dry. (SP)					
	12						
	13						
	14						
	15	SAND: greyish-orange (10YR 7/4), coarse to fine grained, some small gravel, well graded, dry. (SP)	HS=0.0ppm			17,18,11,20	1.6/2.0 ft
	16	CLAY: moderate brown (5YR 4/4), medium to low plasticity, hard, gypsum crystals. (CL)					
	17						
	18						
	19						
	20	CLAY, as above.					
	21						
	22						
	23						
	24						
	25	CLAY: dark reddish-brown (10R 3/4), high plasticity, hard, moist. (CH)	HS=0.0ppm			19,20,31,50	1.5/2.0 ft
	26						
	27	no groundwater encountered. CME-55 can't drill through hard clay					TD= 27.0 ft

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-37-02

12409

DRILLING LOG

HOLE NO. SB-37-03

F2392

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688957.31(Y), 539260.17(X)
9. SURFACE ELEVATION	4085.89
10. DATE STARTED	26 SEP 91
11. DATE COMPLETED	26 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	17 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SAND: greyish-orange (10YR 7/4), very fine, moist, loose, crumbly, clean, poorly graded. (SP)	HS=2.5ppm		91JULH037-005	10,12,10,9	2.0/2.0 ft
	1						
	2	brown/tan (10YR 6/6).	HS=0.0ppm			10,17,9,14	2.0/2.0 ft
	3	changes to a fine to very fine, tan (10YR 8/2) sand, hard (not quite caliche) sand.					
	4						
	5	changes to an orange-pink (5YR 8/4) color.	HS=0.0ppm			2,7,9,12	2.0/2.0 ft
	6						
	7		HS=0.0ppm		91JULH037-006	8,20,22,23	2.0/2.0 ft
	8						
	9						

DRILLING LOG

HOLE NO. SB-37-03

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
						3,13,11,13	2.0/2.0 ft
			HS=0.0ppm				
	11	CLAYEY SILT: brown (5YR 5/6), firm to stiff, high plasticity, white spots or mottles, sandy gypsum crystals. (MH)					
	12						
	13						
	14						
	15					18,25,15, 16	2.0/2.0 ft
			HS=0.0ppm				
	16	SILT: tan (10YR 8/2), caliche, crumbly, hard. (ML)					
	17						TD= 17 ft
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

DRILLING LOG

HOLE NO. SB-37-04

F2410

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	687361.22(Y), 538546.76(X)
9. SURFACE ELEVATION	4078.51
10. DATE STARTED	26 SEP 91
11. DATE COMPLETED	26 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	21 ft blg
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	22 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
						%

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILT: very pale orange (10YR 8/2), low plasticity, dry, organic debris near top. (ML)	HS=0.0ppm			39,16,25	1.7/2.0 ft
	2, 3	SILT: greyish-orange (10YR 7/4), low plasticity, dry, some fine sand, caliche layers. (ML)	HS=0.0ppm			11,12,22, 32	1.9/2.0 ft
	5, 6	SILT, as above.	HS-0.0ppm		91JULH037 -007	20,37,29, 21	2.0/2.0 ft
	7, 8, 9	SAND: greyish-orange (10YR 7/4), silt and very fine grained ssilt and, poorly graded, dry, white specks, non-plastic. (SP)	HS=0.0ppm			17,37,31, 34	1.5/2.0 ft

DRILLING LOG

HOLE NO. SB-37-04

F2410

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SAND: white (N9), very fine grained, poorly graded, dry. (SP)				37,50	0.3/2.0 ft no sample, no recovery
	11						
	12						
	13						
	14						
	15	SAND, as above. (SP)				50	no sample, no recovery
	16						
	17						
	18						
	19						
	20	CLAY: very dark red (5R 2/6), high plasticity, moist, some gypsum. (CH)			91JULH037-008	8,12,13,25	sample 20-21 ft for analysis
	21	SAND: white (N9), very fine grained, poorly graded, wet, some silt and clay. (SP)					water at 21 ft bgl
	22						TD= 22.0 ft
	23						
	24						
	25						
	26						
	27						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-37-04

DRILLING LOG

HOLE NO. SB-37-05

F2394

1. COMPANY NAME RADIAN CORPORATION	2. DRILLING SUBCONTRACTOR SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES	4. LOCATION 02
5. NAME OF DRILLER ALEX SANCHEZ	6. MANUFACTURER'S DESIGNATION OF DRILL HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: BOREHOLE DIA.: 7.5"	8. HOLE LOCATION 686248.02(Y), 538052.73(X)
	9. SURFACE ELEVATION 4076.36
	10. DATE STARTED 26 SEP 91 / 11. DATE COMPLETED 26 SEP 91
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
14. TOTAL DEPTH OF HOLE 17.0 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1, 2	SAND: tan/orange, clean, very fine, dry, crumbly, poorly graded, roots. (SP)	HS=0.0ppm		91JULH037-009	2,5,7,10	1.0/2.0 ft
	3, 4, 5, 6, 7	SILTY SAND: brown (5YR 6/4), tan mottles, crumbly, moist, slightly hard. (SM)	HS=0.0ppm			3,13,22,30	2.0/2.0 ft
			HS=0.0ppm				2.0/2.0 ft
	8, 9	SAND: tan and brown (5YR 6/4) zones, clean, fine to very fine, poorly graded, moist, crumbly. (SP)	HS=0.0ppm			5,19,21,26	2.0/2.0 ft

DRILLING LOG

HOLE NO. SB-37-05

F2394

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
					91JULH037-010		
	11	SAND: tan (10YR 8/2), very fine, hard (almost caliche), poorly graded, crumbly. (SP)	HS=0.0ppm			1,10,26,27	2.0/2.0 ft
	12						
	13						
	14						
	15	SAND: brown (5YR 6/4), clean, fine to very fine, poorly graded. (SP)	HS=0.0ppm			20,38,50,16	2.0/2.0 ft not able to obtain sample
	16						
	17						TD= 17.0 ft
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						
	26						
	27						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-37-05

DRILLING LOG

HOLE NO. SB-37-06

F2411

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	685990.06(Y), 538018.92(X)
9. SURFACE ELEVATION	4075.62
10. DATE STARTED	27 SEP 91
11. DATE COMPLETED	27 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	34 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	35 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILT: very pale orange (10YR 8/2), low plasticity, dry, very soft. (ML)	HS=0.0ppm			3,8,12,14	1.5/2.0 ft
	2						
	3	SILT: as above.	HS=0.0ppm		91JULH037 -011	5,15,12,13	1.8/2.0 ft
	4						
	5	CLAYEY SILT: light brown (5YR 6/4), mottled with white gypsum sand, medium plasticity, dry, soft. (ML)	HS=0.0ppm				2.0/2.0 ft
	6						
	7	SAND: very pale orange (10YR 8/2), very fine grained, poorly graded, rust stains. (SP)				19,30,50	1.0/2.0 ft
	8						
	9						

DRILLING LOG

HOLE NO. SB-37-06

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SAND: as above.	HS=0.0ppm			17,9,4,9	1.5/2.0 ft
	11						
		SILTY SAND: as above.					
	12						
	13						
	14						
	15	SILT: light brown (5YR 6/4) and very pale orange (10YR 8/2), low plasticity, dry, soft soft. (ML)	HS=0.0ppm			13,17,21, 23	
	16						
	17						
	18						
	19						
	20	SANDYR SILT, with clay: light brown (5YR 5/6), medium plasticity, moist, firm, sand increases with depth. (ML)	HS=0.0ppm			12,18,36, 50	
	21						
	22						
	23						
	24						
	25	SILTY SAND: light brown (5YR 5/6), very fine grained, poorly graded, non-plastic, moist, soft. (SM)	HS=0.0ppm		91JULH037 -012	13,15,25, 30	
	26						
	27						

DRILLING LOG

HOLE NO. SB-37-06

F2411

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 3 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30	SILTY SAND, as above.	HS=0.0ppm			24,50	
	31						
	32						
	33						
	34						water at 34.0 ft bgl
	35	SILTY SAND: as above, wet.	HS=0.0ppm				
	36						
	37						TD= 37.0 ft
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. SB-37-06

DRILLING LOG

F2387

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
HOLE NO.	MW-37-01
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	-37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	686025.10(Y), 537843.13(X)
9. SURFACE ELEVATION	4076.08
10. DATE STARTED	27 SEP 91
11. DATE COMPLETED	27 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	28.5 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 31.64 ft bgl
14. TOTAL DEPTH OF HOLE	36 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1, 2	SILTY SAND: light brown, very fine, crumbly, moist, poorly graded. (SM)					4.0/5.0 ft
	3, 4	SANDY SILT: tan (10YR 8/2), some caliche, dry, crumbly, low plasticity. (ML)					
	5, 6, 7, 8, 9	SAND: orange-pink (5YR 8/4), clean, fine to very fine, loose, crumbly, poorly graded, homogeneous. (SP)					3.5/5.0 ft

DRILLING LOG

PROJECT	INSPECTOR	HOLE NO.	SHEET
HOLLOMAN AFB RI/FS	ACD	MW-37-01	2 OF 3 SHEETS

F2387

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		CLAYEY SILT: brown (5YR 5/6), meduim to high plasticity, white spots/mottles (gypsum crystals??), firm, moist, medium toughness. (MH)					-4.5/5.0 ft
	11						
	12						
	13						
	14	SAND: brown (5YR 5/6), fine to very fine, clean. (SP)					
		SAND: tan (10YR 8/2), clean, moist, crumbly, fine to very fine, poorly graded, homogeneous, minor caliche. (SP)					
	15						3.0/5.0 ft
	16						
	17	changes to brown (5YR 6/4).					
	18						
	19						
	20	SILTY SAND: brown (5YR 5/6), moist, very fine, poorly graded, homogeneous, crumbly. (SM)					3.5/5.0 ft
	21						
	22						
	23	tan laminae.					
	24						
	25						4.0/5.0 ft
	26	fine to very fine, clean sand zone.					
	27						

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

HOLE NO. MW-37-01

SHEET 3 OF 3 SHEETS

F2387

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29	wet at 28.5'					
	30						-water at 29.64 ft 5.0/5.0 ft
	31						
	32						
	33			MW037-01- 32.5-35.0'			
	34						
	35	CLAY: brown (5YR 4/4), high plasticity, sticky, low toughness, large gypsum crystals. (CH)					
	36						TD=36 ft
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-37-01

DRILLING LOG

HOLE NO. MW-37-02

F2308

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	686330.24(Y), 537768.93(X)
9. SURFACE ELEVATION	4057.22
10. DATE STARTED	27 SEP 91
11. DATE COMPLETED	27 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	~13 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 14.54 ft bmp
14. TOTAL DEPTH OF HOLE	21.5 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILTY SAND: orange-pink (5YR 8/4), loose, crumbly, dry, poorly graded, homogeneous. (SM)					3.0/5.0 ft
	2, 3, 4	SANDY SILT (silty sand?): brown (5YR 5/6), moist, homogeneous, loose, crumbly, low plasticity, mottled appearance. (ML)					
	5, 6, 7	SAND: brown (5YR 5/6), clean, very fine, loose, moist, crumbly, poorly graded, homogeneous. (SP)					3.5/4.0 ft
	8, 9	SAND: orange-pink (5YR 8/4), very fine to fine, moist, loose, crumbly, poorly graded, clean, homogeneous. (SP)					

DRILLING LOG

PROJECT: HOLLOMAN AFB RI/FS

INSPECTOR: ACD

HOLE NO.: MW-37-02

SHEET 2 OF 2 SHEETS

F2388

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		harder (not loose, but not caliche) at 10', moist					5.0/5.0 ft
	11						
	12						
	13	SAND: brown (5YR 5/6), fine to medium, loose, wet zone at 13 ft. (SP)					▽ —water at 12.54 ft
	14	very fine to fine, clean, hard, caliche, homogeneous, poorly graded, wet.					
	15						5.0/5.0 ft
	16						
	17	SAND, as above: not as hard, very saturated.		MW037-02 17.5-20.0			
	18						
	19						
	20						
	21						
	22						TD=21.5 ft
	23						
	24						
	25						
	26						
	27						

PROJECT: HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO.: MW-37-02

DRILLING LOG

F2412

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
HOLE NO.	MW-37-03
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	687430.86(Y), 538441.26(X)
9. SURFACE ELEVATION	4077.62
10. DATE STARTED	27 SEP 91
11. DATE COMPLETED	27 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	25.6 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 28.60 ft bmp
14. TOTAL DEPTH OF HOLE	36 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	DISTURBED / UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC / METALS / OTHER (SPECIFY) / OTHER (SPECIFY) / OTHER (SPECIFY)
21. TOTAL CORE RECOVERY	%
22. DEPOSITION OF HOLE	BACKFILLED / MONITORING WELL: X / OTHER (SPECIFY)
23. SIGNATURE OF INSPECTOR	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1, 2, 3, 4, 5	SILT: very pale orange (10YR 8/2), low plasticity, dry, very soft. (ML)					cuttings
	6, 7	SILTY CLAY: moderate brown (5YR 4/4), medium plasticity, moist. (CL)	SC=0.0ppm				cuttings
	8, 9	SANDY CLAY: moderate brown (5YR 4/4), medium plasticity, dry, very fine sand in clay. (CL)	SC=0.0ppm				cuttings

DRILLING LOG

PROJECT: HOLLOMAN AFB RI/FS

INSPECTOR: HTH

HOLE NO. MW-37-03

SHEET 2 OF 3 SHEETS

F2412

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11						
	12	CLAYEY SILT: moderate brown (5YR 4/4), low plasticity, firm, dry, white spots. (ML)					
	13						
	14						
	15	SANDY CLAY: moderate brown (5YR 4/4), medium plasticity, dry, hard, very fine sand, gypsum crystals. (CL)	SC=0.0ppm				cuttings; very hard to drill.
	16						
	17						
	18						
	19						easier to drill at 19 ft
	20	SAND: very pale orange (10YR 8/2), fine to very fine grained, poorly graded, dry. (SP)	SC=0.0ppm			15,30,50	
	21						
	22						
	23						
	24						
	25	CLAY: moderate brown (5YR 4/4), high plasticity, moist, firm. (CL)	SC=0.0ppm			7,9,13,11	
	26						water at 25.6 ft bgl
	27						
							saturation ~27.5 ft

PROJECT: HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-37-03

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

HOLE NO. MW-37-03

SHEET 3 OF 3 SHEETS

F2412

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30	SILTY SAND: light brown (6YR 6/4), very fine grained, poorly graded, low plasticity, wet. (SP)	SC=0.0ppm			6,9,7,7	
	31	SILTY CLAY: light brown (6YR 6/4), high plasticity, firm, wet. (CH)					
	32						
	33						
	34						
	35						
	36						TD= 36.0 ft
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-37-03

DRILLING LOG

HOLE NO.	MW-37-04
1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688500.66(Y), 538802.84(X)
9. SURFACE ELEVATION	4061.11
10. DATE STARTED	28 SEP 91
11. DATE COMPLETED	28 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	~8.5 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 16.14 ft bmp
14. TOTAL DEPTH OF HOLE	20 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	DISTURBED / UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC / METALS / OTHER (SPECIFY) / OTHER (SPECIFY) / OTHER (SPECIFY)
21. TOTAL CORE RECOVERY	%
22. DEPOSITION OF HOLE	BACKFILLED / MONITORING WELL: X / OTHER (SPECIFY)
23. SIGNATURE OF INSPECTOR	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SANDY SILT: brown (5YR 5/6) to (5YR 6/4), dry, crumbly, loose, low plasticity. (ML)					3.0/5.0 ft
	2	CLAYEY SILT: brown (5YR 4/4), white spots/mottles/gypsuspots/m crystals, high plasticity, firm to stiff, moist. (MH)					
	3						
	4						
	5						4.5/5.0 ft
	6						
	7						
	8						
	9	SILTY SAND: light (5YR 6/4) and moderate (5YR 4/4) brown, poorly graded, wet, loose, homogeneous, very fine grained. (SM)					

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

HOLE NO. MW-37-04

SHEET 2 OF 2 SHEETS

F2389

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11	SAND: greyish-orange (10YR 7/4) to light brown, clean, fine to very fine, wet, loose, homogeneous, poorly graded. (SP)					5.0/5.0 ft
	12						
	13						
	14						-water at 13.64 ft
	15						4.0/5.0 ft
	16	SAND: tan (10YR 8/2), clean, wet, very fine to fine (some medium) grained, homogeneous, loose, poorly graded. (SP)					
	17						
	18						
	19						
	20						TD=20 FT
	21						
	22						
	23						
	24						
	25						
	26						
	27						

DRILLING LOG

F2390

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
HOLE NO.	MW-37-05
SHEET	1 OF 3 SHEETS
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688445.46(Y), 538940.94
9. SURFACE ELEVATION	4081.14
10. DATE STARTED	28 AUG 91
11. DATE COMPLETED	28 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	~33 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 35.04 ft bmp
14. TOTAL DEPTH OF HOLE	42 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1, 2, 3, 4	SANDY SILT: tan to grey-orange (10YR 8/6), dry, loose, crumbly, low plasticity. (ML) caliche at ~2.5'					3.0/5.0 ft
	5, 6, 7	SAND: orange-pink (5YR 8/4), clean, fine to very fine, poorly graded, moist, loose, crumbly. (SP) tan/orange (10YR 8/2), caliche layer.					3.0/5.0 ft
	8, 9	CLAYEY SILT: brown (5YR 5/6), white spots/mottles/gypsum, high plasticity, firm to stiff, moist. (MH)					

DRILLING LOG

PROJECT: HOLLOMAN AFB RI/FS

INSPECTOR: ACD

HOLE NO. MW-37-05

SHEET 2 OF 3 SHEETS

F2390

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		changes to a hard, sandy, clayey silt.					5.0/5.0 ft
	11						
	12						
	13	SANDY SILT: brown (5YR 5/6), dry, low plasticity, loose, crumbly, some interbedded MH zones. (ML)					
	14						
	15	CLAYEY SILT: high plasticity, same as 7.5-13 ft. (MH)					5.0/5.0 ft
	16						
	17						
	18						
	19						
	20	some sandy zones present.					5.0/5.0 ft
	21						
	22						
	23						
	24						
	25						
	26	SAND: tan (10YR 8/2) to light brown (5YR 6/4) zones, clean, slightly silty, poorly graded, very fine to fine grained, moist to wet, loose crumbly, homogeneous. (SP)					3.5/5.0 ft
	27						

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

HOLE NO. MW-37-05

SHEET 3 OF 3 SHEETS

F2390

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30						
	31						
	32						▽ -water at 31.84 ft
	33			MW-037-005 32.5-35.0			
	34						
	35	interbedded sands and clayey silts: yellowish-red (5YR 5/6)					3.0/5.0 ft
	36						
	37	SAND: tan (10YR 8/2), clean, fine to very fine, homogeneous, poorly graded, wet. (SP)					
	38						
	39						
	40	hard, caliche.					very slow drilling
	41						
	42						TD=42.0 ft
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-37-05

DRILLING LOG

F2391

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
HOLE NO.	MW-37-06
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	37
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	688953.52(Y), 539149.29(X)
9. SURFACE ELEVATION	4084.13
10. DATE STARTED	28 AUG 91
11. DATE COMPLETED	28 AUG 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	~40 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 35.82 ft bmp
14. TOTAL DEPTH OF HOLE	45 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	DISTURBED / UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC / METALS / OTHER (SPECIFY) / OTHER (SPECIFY) / OTHER (SPECIFY)
21. TOTAL CORE RECOVERY	%
22. DEPOSITION OF HOLE	BACKFILLED / MONITORING WELL (X) / OTHER (SPECIFY)
23. SIGNATURE OF INSPECTOR	ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILTY SAND: orange-pink (5YR 8/4), dry, loose, crumbly, poorly graded. (SM)					3.5/5.0 ft
	2, 3, 4, 5	SILT: tan (10YR 8/2) and light brown/tan, hard, caliche, dry, crumbly, low plasticity. (ML)					
	6	SAND: tan (10YR 8/2) to yellow-tan, clean, dry, loose, fine to very fine grained, poorly graded, yellow-brown stains. (SP)					4.0/5.0 ft
	7, 8, 9	SILT: red brown to brown (5YR 5/6), clayey (7-8 ft), high plasticity, white spots/mottles, sandy, low to medium plasticity (8-9 ft), firm hard, almost a silty sand (?). (MH)					

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

HOLE NO. MW-37-06

SHEET 2 OF 3 SHEETS

F2391

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11						4.5/5.0 ft
	12	SILT: tan (10YR 8/2) and brown (5YR 6/4), some caliche, low plasticity, moist, soft, sandy. (ML)					
	13						
	14						
	15	SAND: grey-orange (10YR 7/4), clean poorly graded, homogeneous, moist, loose, some hard zones, very fine. (SP)					4.5/5.0 ft
	16						
	17	changes to pale orange (10YR 8/2).					
	18	CLAYEY, SANDY SILT: brown (5YR 5/6), gypsum crystals, medium plasticity. (MH)					
	19	SANDY, CLAYEY SILT: grey-orange (10YR 7/4), firm to hard, low plasticity. (ML)					
	20	CLAYEY SILT: brown (5YR 5/6), dry, loose, sticky when wet, low plasticity. (ML)					4.0/5.0 ft
	21						
	22	changes to grey-orange (10YR 7/4), harder.					
	23	SAND: brown (5YR 5/6), loose, moist, fine to very fine, clean. (SP)					
	24	CLAYEY SILT: brown (5YR 5/6), high plasticity, white spots (gypsum crystals?), firm sample, moist. (MH)					
	25	SILTY SAND: olive, very fine, poorly graded, loose, some thin caliche/hard zones, moist. (SM)					3.5/4.0 ft
	26						
	27						
		changes to a tan (10YR 8/2)					

DRILLING LOG

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

HOLE NO. MW-37-06

SHEET 3 OF 3 SHEETS

F2391

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30						4.0/5.0 ft
	31						
	32	caliche zones some interbedded brown laminae					
	33						
	34	SAND: tan (10YR 8/2), clean, wet, fine to very fine grained, poorly graded. (SP)					—water at 33.32 ft
	35	SILTY SAND: olive, poorly graded. (SM)					5.0/5.0 ft
	36	SILTY SAND: light brown (5YR 6/4), some caliche, moist (wet?), homogeneous, poorly graded, hard. (SM)					
	37						
	38						
	39						
	40	SILT: brown (5YR 4/4), moist to wet, loose, no caliche, firm, medium to low plasticity. (MH)					
	41						
	42	CLAYEY SILT: high plasticity.					
	43	SAND: clean, light brown (5YR 6/4), clean, very fine to medium, wet, homogeneous, poorly graded. (SP)					
	44						
	45						TD=45.0 ft

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-37-06

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 27 SEPT 91	STARTED	COMPLETED	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4077.22			SIGNATURE OF INSPECTOR/INSTALLER ACD
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-37-01

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

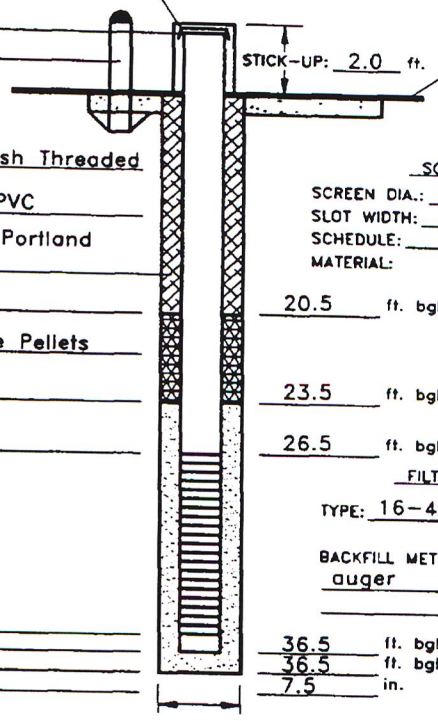
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

28.5 ft. LENGTH OF SOLID PIPE

9.5 ft. WELL SCREEN LENGTH



STICK-UP: 2.0 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

20.5 ft. bgl

23.5 ft. bgl

26.5 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

36.5 ft. bgl

36.5 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 4 NOV 91/1437/31.64 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738D

ELEVATION GROUND WATER	PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 27 SEPT 91 / STARTED / COMPLETED	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4058.43	SIGNATURE OF INSPECTOR/INSTALLER ACD
DRILLING METHOD HOLLOW STEM AUGER	WELL NO. (as shown on drawing: title and file number) MW-37-02

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

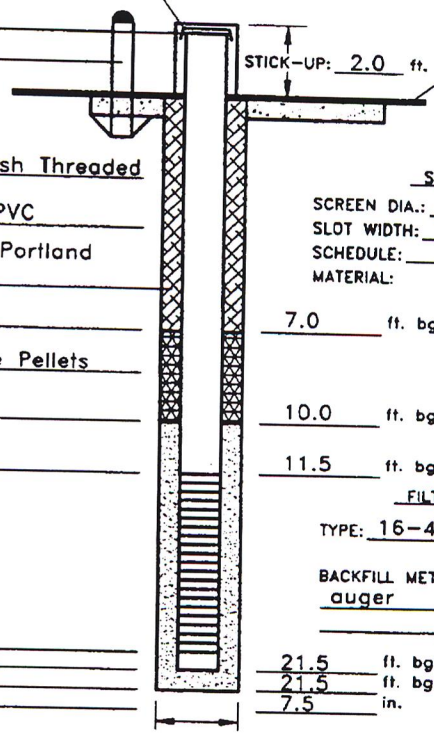
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

13.5 ft. LENGTH OF SOLID PIPE

9.5 ft. WELL SCREEN LENGTH



STICK-UP: 2.0 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

7.0 ft. bgl

10.0 ft. bgl

11.5 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

21.5 ft. bgl

21.5 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 4 NOV 91/1443/14.54 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738E

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 27 SEPT 91	STARTED	COMPLETED	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4079.66			SIGNATURE OF INSPECTOR/INSTALLER HTH
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-37-03

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: 1/4" Bentonite

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

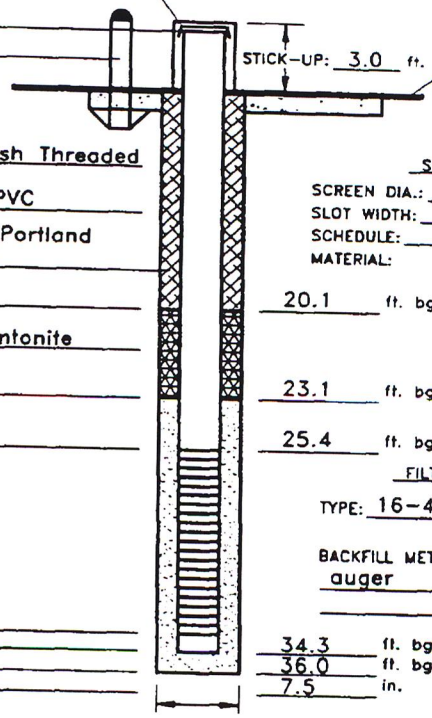
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 27.4 ft.

WELL SCREEN LENGTH: 9.5 ft.



STICK-UP: 3.0 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

20.1 ft. bgl

23.1 ft. bgl

25.4 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

34.3 ft. bgl

36.0 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See well development record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 27 SEP 91/1600/26.3 ft bgl

17 OCT 91/1500/28.64 ft bmp

04 NOV 91/1505/28.60 ft bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

F2304

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 28 SEPT 91	STARTED 1400	COMPLETED 1500	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4063.53			SIGNATURE OF INSPECTOR/INSTALLER HTH
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-37-04

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: 1/4" Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

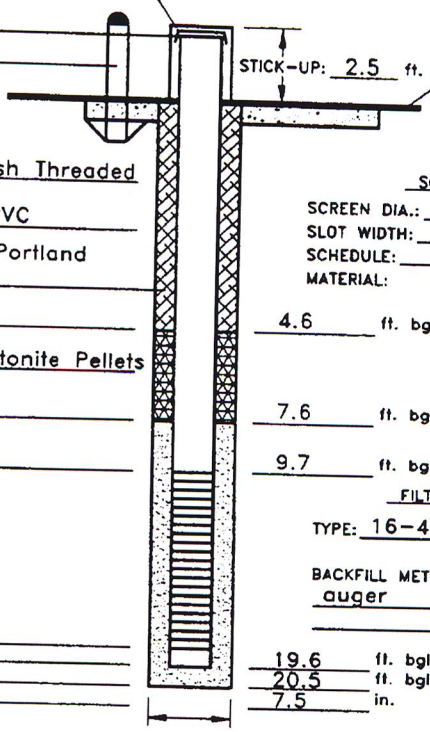
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 12.1 ft.

WELL SCREEN LENGTH: 9.5 ft.



STICK-UP: 2.5 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

4.6 ft. bgl

7.6 ft. bgl

9.7 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

19.6 ft. bgl

20.5 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See well development record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 28 SEP 91/1600/13.3 ft bgl

19 OCT 91/0840/16.09 ft bmp

04 NOV 91/1515/16.14 ft bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

F2305

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 29 SEPT 91	STARTED 1600	COMPLETED 1800	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4083.09			SIGNATURE OF INSPECTOR/INSTALLER HTH
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-37-05

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: 1/4" Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

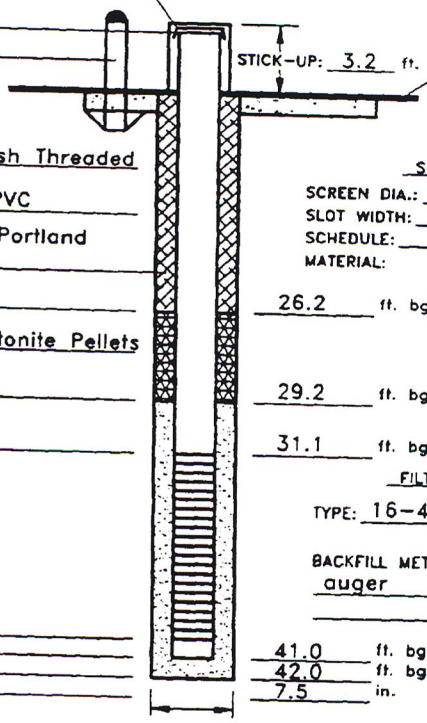
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 3.2 ft.

WELL SCREEN LENGTH: 9.5 ft.



STICK-UP: 3.2 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

26.2 ft. bgl

29.2 ft. bgl

31.1 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

41.0 ft. bgl

42.0 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 19 OCT 91/0840/35.04 ft. bmp

4 NOV 91/1458/35.04 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738M

ELEVATION GROUND WATER	PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 29 SEPT 91 / STARTED / COMPLETED	LOCATION (Coordinates or Station) 37
ELEVATION TOP OF CASING 4085.29	SIGNATURE OF INSPECTOR/INSTALLER ACD
DRILLING METHOD HOLLOW STEM AUGER	WELL NO. (as shown on drawing: title and file number) MW-37-06

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 34.6 ft.

WELL SCREEN LENGTH: 9.5 ft.

STICK-UP: 2.5 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

27.0 ft. bgl

30.0 ft. bgl

32.0 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

42.0 ft. bgl

45.0 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 4 NOV 91/1452/35.82 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738F

Appendix A-4-2 (OT-37)

Data Tables and Figures from the:

OT-37 Accelerated Corrective Measures Investigation
Holloman Air Force Base, NM

Conducted by Bhate Environmental Associates, Inc., June 2007

Table 4-7
Soil Analytical Data (June - October 2007)
Early Missle Test Site, OT-37 (Former Transformers)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-DP01-2**	**OT37-DP01-10**	**OT37-DP02-2**	**OT37-DP02-10**	**OT37-DP03-2**	**OT37-DP03-10**	**OT37-DP04-2**
Lab Sample Identification:	**NMED**	**D7F070201-011**	**D7F070201-012**	**D7F070201-013**	**D7F070201-014**	**D7F070201-015**	**D7F070201-016**	**D7F070201-017**
Date Sampled:	**Residential[1]**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry		**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	21	19	21	19	21	10	24
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Aroclor 1260	1.12	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [2]	0.80 J	0.74 J	0.65 J	0.73 J	0.71 J	0.58 J	0.84 J
Diesel Range Organics (C10-C22)	940 [2]	2.1 J	2.1 J	2.2 J	2.2 J	2.1 J	1.9 J	2.3 J
Oil Range Organics (>C22-C36)	940 [2]	ND	ND	ND	ND	ND	ND	ND

Notes:
NMED = New Mexico Environment Department
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NV = No Value
NS = Not Sampled
OT37 = Early Missle Test Site
DP = Direct Push
A = sample suffix denoting a field duplicate sample

J = Estimated result, between the Method Detection Limit and the Reporting Limit, and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The final digits of the client sample identification equal the ending depth of the sample interval (feet below ground surface)

Table 4-7
Soil Analytical Data (June - October 2007)
Early Missle Test Site, OT-37 (Former Transformers)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-DP04-10**	**OT37-DP04-10A**	**OT37-DP05-2**	**OT37-DP05-10**	**OT37-DP06-2**	**OT37-DP06-10**	**OT37-DP06-10A**
Lab Sample Identification:	**NMED**	**D7F070201-018**	**D7F070201-019**	**D7F080187-011**	**D7F080187-012**	**D7F080187-013**	**D7F080187-014**	**D7F080187-015**
Date Sampled:	**Residential[1]**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry		**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	9.6	8.6	35	20	19	19	20
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Aroclor 1260	1.12	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [2]	0.45 J	0.75 J	1.1 J	0.92 J	0.66 J	0.92 J	0.86 J
Diesel Range Organics (C10-C22)	940 [2]	1.9 J	2.0 J	3.4 J	2.2 J	2.1 J	2.2 J	2.2 J
Oil Range Organics (>C22-C36)	940 [2]	ND	ND	87	ND	ND	ND	ND

Notes:
NMED = New Mexico Environment Department
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NV = No Value
NS = Not Sampled
OT37 = Early Missle Test Site
DP = Direct Push
A = sample suffix denoting a field duplicate sample

J = Estimated result, between the Method Detection Limit and the Reporting Limit, and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The final digits of the client sample identification equal the ending depth of the sample interval (feet below ground surface)

Table 4-7
Soil Analytical Data (June - October 2007)
Early Missle Test Site, OT-37 (Former Transformers)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-DP07-2**	**OT37-DP07-10**	**OT37-DP08-2**	**OT37-DP08-10**	**OT37-DP09-2**	**OT37-DP09-10**	**OT37-DP10-2**
Lab Sample Identification:	**NMED**	**D7F080187-016**	**D7F080187-017**	**D7F080187-018**	**D7F080187-019**	**D7F120221-032**	**D7F120221-033**	**D7F120221-034**
Date Sampled:	**Residential[1]**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/11/2007**	**6/11/2007**	**6/11/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry		**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	16	22	16	21	16	17	20
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Aroclor 1260	1.12	ND	ND	ND	ND	ND	ND	210
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [2]	0.86 J	0.81 J	0.73 J	0.74 J	ND	UJ	ND
Diesel Range Organics (C10-C22)	940 [2]	2.0 J	2.1 J	2.1 J	2.3 J	10 J	2.2 J	2.3 J
Oil Range Organics (>C22-C36)	940 [2]	ND	ND	ND	ND	210	ND	ND

Notes:
NMED = New Mexico Environment Department
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NV = No Value
NS = Not Sampled
OT37 = Early Missle Test Site
DP = Direct Push
A = sample suffix denoting a field duplicate sample

J = Estimated result, between the Method Detection Limit and the Reporting Limit, and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The final digits of the client sample identification equal the ending depth of the sample interval (feet below ground surface)

Table 4-7
Soil Analytical Data (June - October 2007)
Early Missle Test Site, OT-37 (Former Transformers)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-DP10-10**	**HA-37-04-02**	**HA-37-14-02**	**OT37-TAR**
Lab Sample Identification:	**NMED**	**D7F120221-035**	**D7J200226-001**	**D7J200226-002**	**D7F070201-020**
Date Sampled:	**Residential[1]**	**6/11/2007**	**10/19/2007**	**10/19/2007**	**6/6/2007**
Analyte		**Result**	**Result**	**Result**	**Result**
General Chemistry		**%**	**%**	**%**	**%**
Percent Moisture	NV	14	19	14	12
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Aroclor 1260	1.12	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [2]	ND	0.47 J	0.51 J	NS
Diesel Range Organics (C10-C22)	940 [2]	2.0 J	ND	ND	NS
Oil Range Organics (>C22-C36)	940 [2]	ND	3.0 J	2.2 J	NS

Notes:
NMED = New Mexico Environment Department
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NV = No Value
NS = Not Sampled
OT37 = Early Missle Test Site
DP = Direct Push
A = sample suffix denoting a field duplicate sample

J = Estimated result, between the Method Detection Limit and the Reporting Limit, and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The final digits of the client sample identification equal the ending depth of the sample interval (feet below ground surface)

Table 4-8
Soil Analytical Data (July 2007)
Early Missle Test Sites, OT-37 (Former Launch Facilities)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-SB08-5**	**OT37-SB08-40**	**0T37-SB09-15**	**0T37-SB09-30**	**OT37-SB10-5**	**OT37-SB10-30**	**OT37-SB10-30A**	**OT37-SB11-15**	**OT37-SB11-25**	**OT37-SB12-15**
Lab Sample Identification:	**NMED**	**D7G180118-004**	**D7G180118-005**	**D7G260168-004**	**D7G260168-005**	**D7G250192-007**	**D7G250192-008**	**D7G250192-009**	**D7G190292-001**	**D7G190292-002**	**D7G190292-003**
Date Sampled:	**Residential[1]**	**7/17/2007**	**7/17/2007**	**7/24/2007**	**7/24/2007**	**7/24/2007**	**7/24/2007**	**7/24/2007**	**7/17/2007**	**7/17/2007**	**7/17/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	21	18	14	15	26	26	30	17	13	15
RCRA Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Barium	15,600	27	13	21	55	6.8 J	26	19	8.4	76	130
Cadmium	39	0.11 J	ND	ND	0.049 J	ND	ND	ND	0.056 J	0.16 J	0.090 J
Chromium	234	3.5	1.5 J	2.6	11	ND	2.9	3.5	2.4	12	13
Arsenic	3.9	**4.2**	0.91 J	ND	**10**	ND	ND	ND	1.3 J	1.9 J	**4.1**
Lead	400	0.49 J	ND	1.9	4.8	0.67 J	1.8	2.2	2.1	6.1	6.6
Perchlorate	**mg/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**
Perchlorate	55 [2]	3,000	800 J	890 J	280 J	9,700	ND	ND	2,400	12,000	1,000 J
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
All	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [3]	ND	0.41 J	1.0 J	0.90 J	UJ	UJ	UJ	0.89 J	UJ	0.45 J
Diesel Range Organics (C10-C22)	940 [3]	2.2 J	2.0 J	2.0 J	2.0 J	2.3 J	2.2 J	2.4 J	2.0 J	1.9 J	2.0 J
Oil Range Organics (>C22-C36)	940 [3]	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Acetone	28,100	ND	ND	ND	ND	ND	ND	ND	ND	6.4 J	ND
2-Butanone (MEK)	31,800	11 J	11 J	12 J	10 J	14 J	14 J	15 J	11 J	11 J	13 J
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Benzo(a)anthracene	6.21	ND	ND	ND	ND	48 J	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	347	ND	ND	ND	ND	ND	ND	ND	98 J	92 J	ND
Chrysene	615	ND	ND	ND	ND	47 J	ND	ND	ND	ND	ND
Dibenzofuran	142	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	6.11	ND	ND	ND	ND	430 J	ND	ND	ND	ND	ND
2,4-Dinitrophenol	122	ND	ND	ND	ND	620 J	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	122	ND	ND	ND	ND	210 J	ND	ND	ND	ND	ND
4-Nitrophenol	NV [4]	ND	ND	ND	ND	72 J	ND	ND	ND	ND	ND
Carbazole	NV [4]	ND	ND	ND	ND	49 J	ND	ND	ND	ND	ND

Notes:

NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyl
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ng/kg = nanogram per kilogram
ND = Not Detected
NV = No Value
% = percent
OT37 = Early Missle Test Site
SB = Soil Boring
A = sample suffix denoting a field duplicate sample

J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0
[2] USEPA Region VI Human Health Medium Specific Screening Levels (HHMSSL) 2008 (Sept, 2008).
[3]NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
[4]No Value established for NMED SSL (June, 2006) and/or EPA Region VI HHMSSL (Sept, 2008)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The final digits of the client sample identification equal the ending depth of the sampled interval (feet below ground surface)

J = Estimated result.
UJ = For non detectec
[1]NMED, June 2006. T
[2] USEPA Region VI H
[3]NMED TPH Screeni
[4]No Value established
Bold value indicates a
Note: The final digits

Table 4-8
Soil Analytical Data (July 2007)
Early Missle Test Sites, OT-37 (Former Launch Facilities)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT37-SB12-40**	**OT37-SB13-5**	**OT37-SB13-25**	**OT37-SB14-20**	**OT37-SB14-35**	**OT37-SB14-35-A**	**0T37-SB15-10**	**0T37-SB15-30**
Lab Sample Identification:	**NMED**	**D7G190292-005**	**D7G250192-005**	**D7G250192-006**	**D7G180118-001**	**D7G180118-002**	**D7G180118-003**	**D7G260168-002**	**D7G260168-003**
Date Sampled:	**Residential[1]**	**7/18/2007**	**7/24/2007**	**7/24/2007**	**7/16/2007**	**7/16/2007**	**7/16/2007**	**7/24/2007**	**7/24/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	24	8.9	23	11	19	20	6.6	17
RCRA Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Barium	15,600	85	71	71	110	110	98	35	120
Cadmium	39	0.11 J	0.065 J	ND	0.066 J	ND	ND	0.14 J	0.11 J
Chromium	234	13	7.6	7.9	13	19	20	4.6	17
Arsenic	3.9	**4.3**	1.1 J	1.3 J	**4.2**	**5.3**	**5.6**	1.8 J	**4.7**
Lead	400	5.7	3.7	3.6	7.5	9.6	9.3	3.1	8.5
Perchlorate	**mg/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**	**ng/kg**
Perchlorate	55 [2]	1,300	14,000	ND	1,200	1,200	2,800	1,300	1,900
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
All	NV	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Gasoline Range Organics (C6 -C10)	940 [3]	ND	UJ	UJ	0.42 J	0.44 J	ND	0.95 J	1.0 J
Diesel Range Organics (C10-C22)	940 [3]	2.2 J	1.9 J	2.2 J	1.8 J	2.1 J	2.1 J	1.8 J	2.0 J
Oil Range Organics (>C22-C36)	940 [3]	ND	ND	ND	ND	1.4 J	2.8 J	ND	ND
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Acetone	28,100	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	31,800	12 J	11 J	12 J	9.1 J	10 J	11 J	11 J	9.6 J
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Benzo(a)anthracene	6.21	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	347	100 J	ND	ND	ND	ND	ND	ND	ND
Chrysene	615	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	142	ND	ND	ND	38 J	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	6.11	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	122	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	122	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NV [4]	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	NV [4]	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyl
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ng/kg = nanogram per kilogram
ND = Not Detected
NV = No Value
% = percent
OT37 = Early Missle Test Site
SB = Soil Boring
A = sample suffix denoting a field duplicate sample

Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
l compounds, the sample quantitaion limit is qualified as approximate.
Technical Background Document for Development of Soil Screening Levels, Revision 4.0
Human Health Medium Specific Screening Levels (HHMSSL) 2008 (Sept, 2008).
ng Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
l for NMED SSL (June, 2006) and/or EPA Region VI HHMSSL (Sept, 2008)
nalytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
of the client sample identification equal the ending depth of the sampled interval (feet below ground surface)

Table 4-9
Soil Geotechnical Parameters
Early Missle Test Site, OT-37
Holloman Air Force Base, New Mexico

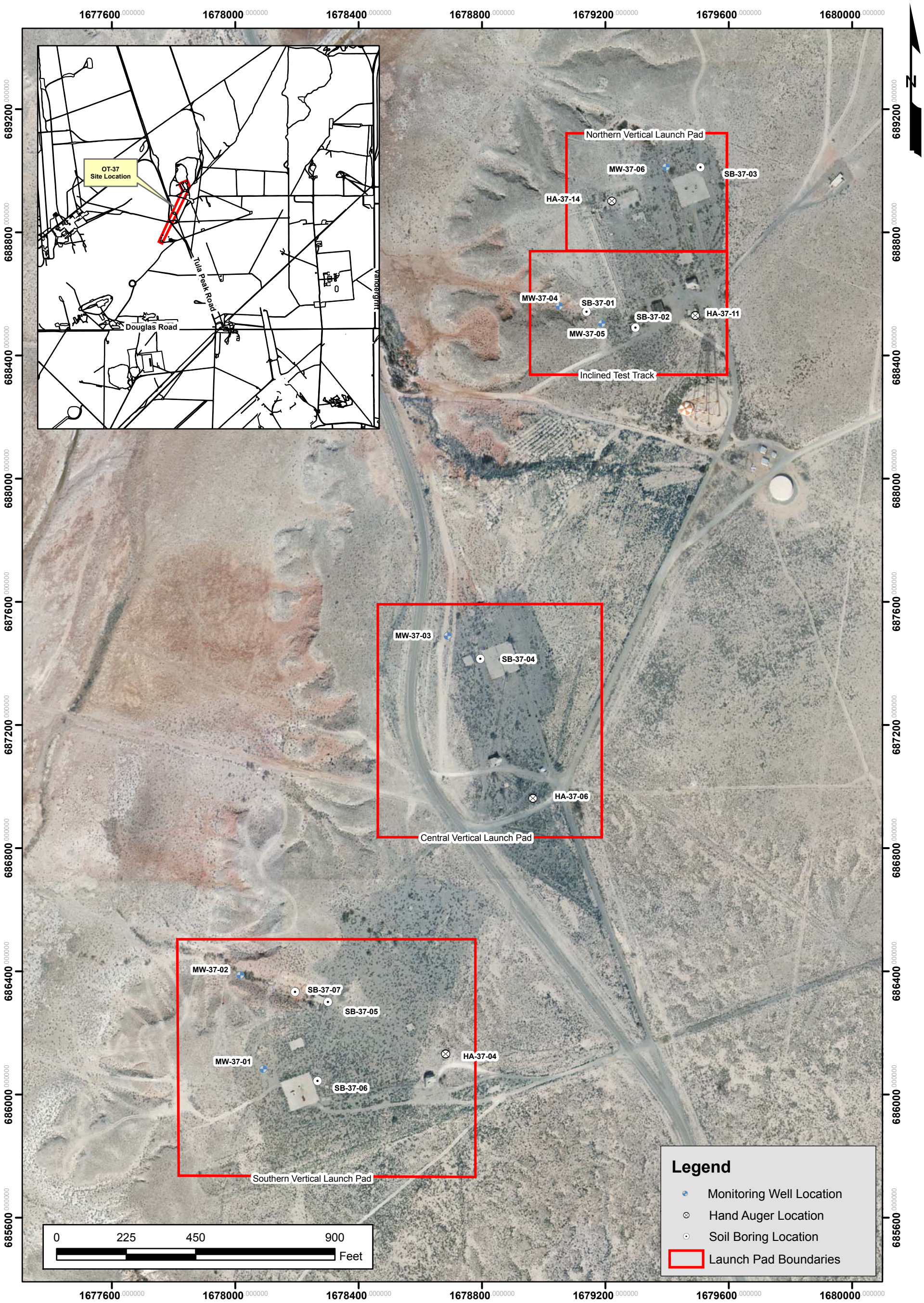
Sample ID	**Method**	**Unit**	**OT37-SB13-12**	**OT-37-SB09-16**	**Average**
Depth (ft bgs)			**8.5-9.5**	**14.5-16**	
Date sampled			**7/24/2007**	**7/24/2007**	
Parameter					
Bulk Density (Dry Basis)	ASTM D2937-94 M	g/mL	1.3	1.1	1.200
Fractional Organic Carbon	ASTM D2974-87	%	7.5	9.8	8.650
Moisture Content (Solids, Percent)	EPA 160.3	%	4.2	8.6	6.400
Specific Gravity	ASTM 1429		1.5	1.3	1.400

Notes:
ASTM - American Society for Testing and Materials
EPA - Environmental Protection Agency
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent

Table 4-10
Groundwater Analytical Data (June 2007)
Early Missle Test Site (OT-37)
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Groundwater Screening Levels**		**OT37-MW01**	**OT37-MW04**	**OT37-MW04-A**	**OT37-MW05**	**OT37-MW06**	**OT37-MW07**	**OT37-MW07-A**	**OT37-MW08**	**0T37-MW09**	**0T37-MW10**
Lab Sample Identification:	**NMWQCC [1]**	**USEPA MCL [2]**	**D7F070201-022**	**D7F080187-001**	**D7F080187-002**	**D7F070201-024**	**D7F070201-023**	**D7G200178-005**	**D7G200178-006**	**D7G200178-010**	**D7G210163-014**	**D7G210163-015**
Date Sampled:			**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**6/6/2007**	**7/18/2007**	**7/18/2007**	**7/19/2007**	**7/19/2007**	**7/20/2007**
Analyte			**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Total Dissolved Solids	1,000	500 [3]	**14,000 Q**	**14,000 Q**	**15,000 Q**	**12,000 Q**	**16,000 Q**	**16,000 J Q**	**13,000 J Q**	**22,000 J Q**	**5,200 J Q**	**16,000 J Q**
RCRA Metals Analysis	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Selenium	50	50	13 J	15	15	11 J	6.3 J	5.5 J	7.5 J	ND	ND	10 J
Barium	1,000	2,000	12	11	11	13	17	56	54	110	49	67
Cadmium	10	5	ND	ND	ND	ND	ND	1.1 J	1.0 J	1.2 J	0.74 J	1.1 J
Arsenic	100	10	**11 J**	**12 J**	**13 J**	**18**	5.2 J	8.6 J	9.8 J	4.5 J	6.0 J	6.0 J
Mercury	2	2	ND	ND	ND	ND	ND	0.038 J	0.036 J	0.035 J	0.037 J	0.039 J
Perchlorate	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Perchlorate	NV	24.5 [4]	6.5	4	4	2.5	4.4	1.8	1.7	2.7	1.3	6.7
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
All	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Acetone	NV	NV	ND	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND
Bromodichloromethane	NV	NV	0.42 J	0.45 J	0.50 J	0.19 J	0.19 J	ND	ND	ND	ND	0.59 J
Chloroform	100	NV	1.3	3.5	3.5	4.9	0.43 J	5.8	5.5	0.45 J	6.6	2.1
Methylene chloride	100	5	ND	ND	ND	ND	ND	0.56 J	0.47 J	0.45 J	ND	ND
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
bis(2-Ethylhexyl)phthalate	NV	NV	4.3 J	UJ	UJ	ND	15	1.3 J	2.5 J	ND	2.4 J	2.5 J

Notes:
NMWQCC = New Mexico Water Quality Control Commision
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyls
µg/L = micrograms per liter
mg/L = milligrams per liter
% = percent
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
ND = Not Detected
NV = No Value
Q = Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
OT37 = Early Missle Test Site
MW = Monitoring Well
A = sample suffix denoting a field duplicate sample
[1]Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2]USEPA National Primary Drinking Water Standards MCLs (816-F-03-016, June 2003 updated March 18, 2009)
[3]USEPA Secondary Drinking Water Standard
[4]USEPA Reference Dose (RfD) for Perchlorate. RfD of 0.0007 mg/kg/day translates to a Drinking Water Equivalent Level (DWEL) of 24.5 ppb (µg/L), (http://yosemite.epa.gov/opa/admpress.nsf/0de87f2b4bcbe56e852572a000651fde/c1a57d2077c4bfda85256fac005b8b32!OpenDocument&Highlight=0,perchlorate)
Bold value indicates analytes above New Mexico Groundwater Quality Standard or USEPA MCL



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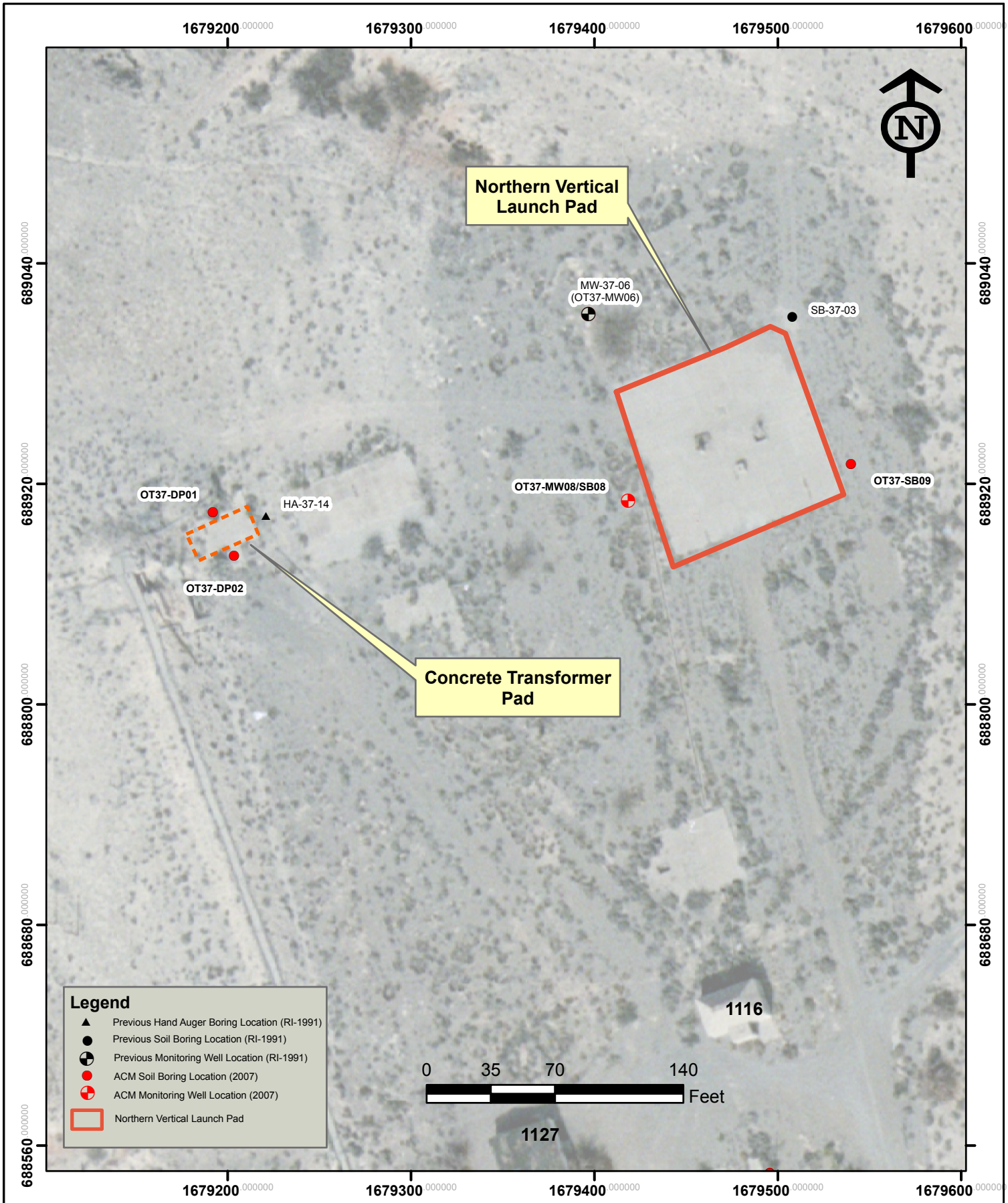
OT-37 Site Map with Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	1"=300'	11/5/07	cm

DRAWING NO: Figure 2-5

Accelerated Corrective Measures Completion Report
Holloman AFB, New Mexico

Figure 2-5



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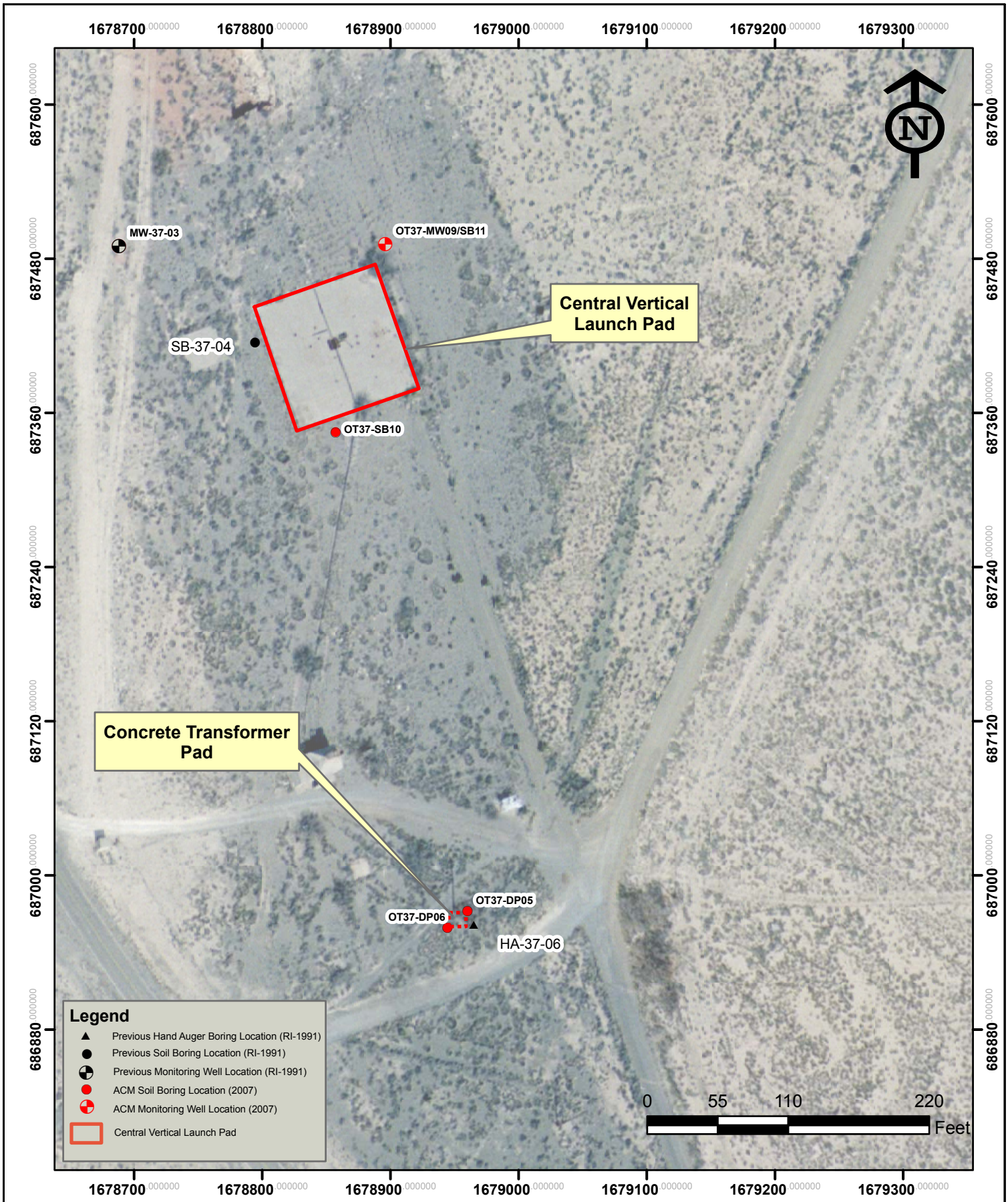
OT-37 Northern Vertical Launch Pad
ACM and Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	1"=70'	11/5/07	cm
			DRAWING NO: fig2-6

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-6



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OT-37 Central Vertical Launch Pad
ACM and Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
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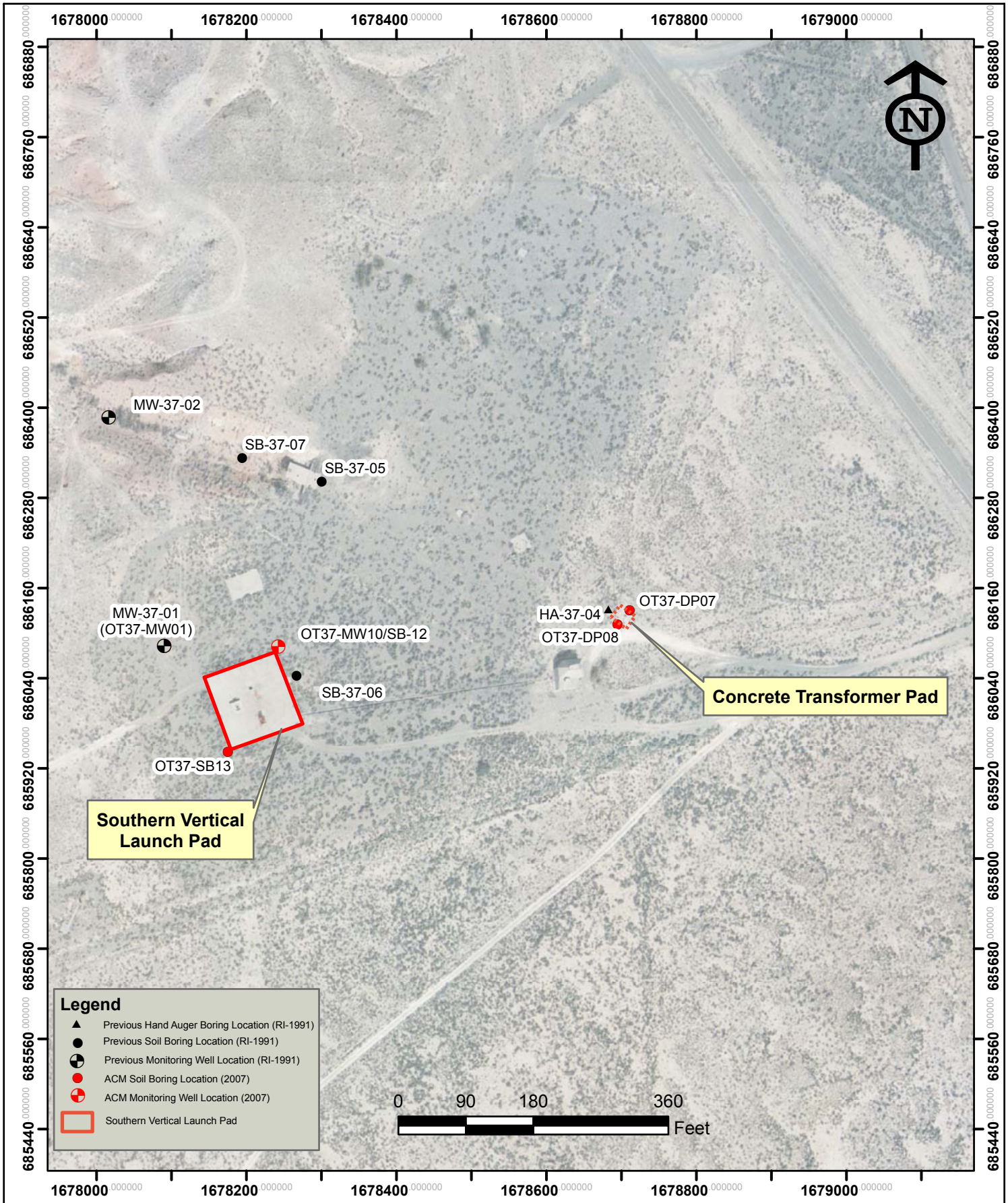
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-7



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OT-37 Southern Vertical Launch Pad
ACM and Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
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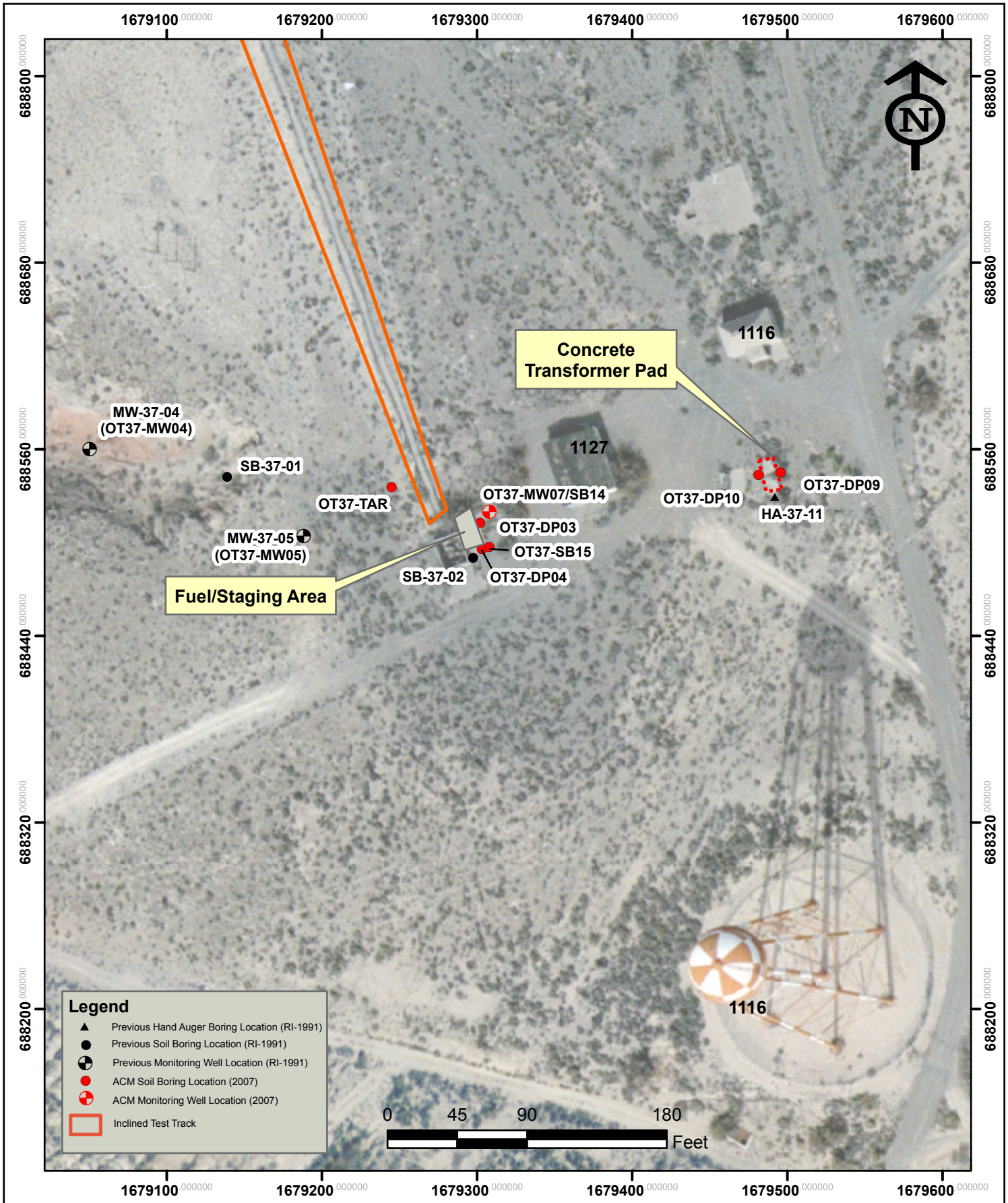
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-8



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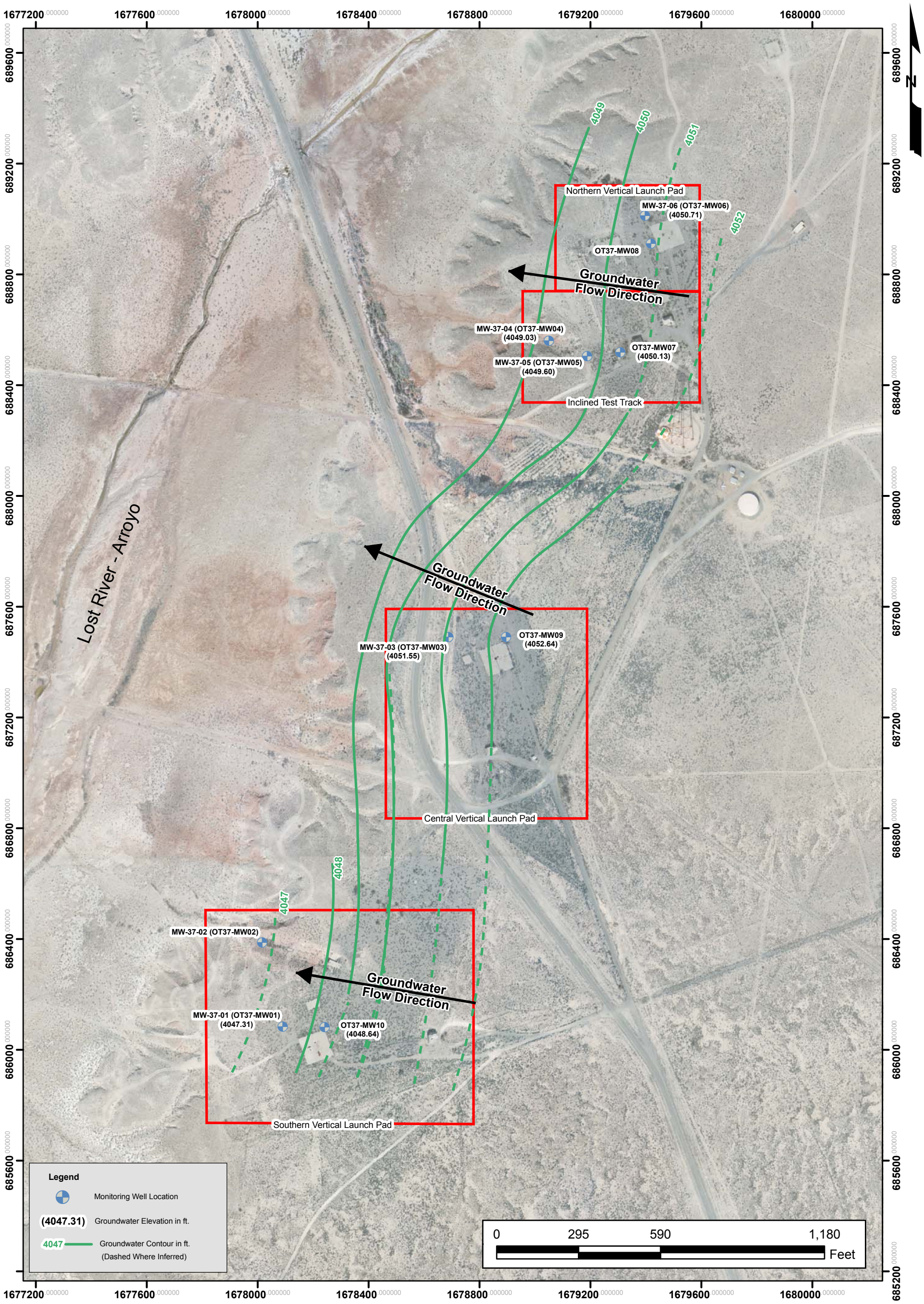
OT-37 Inclined Test Track
ACM and Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
9050361	1"=90'	11/5/07	DRAWING NO:	fig2-9

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-9



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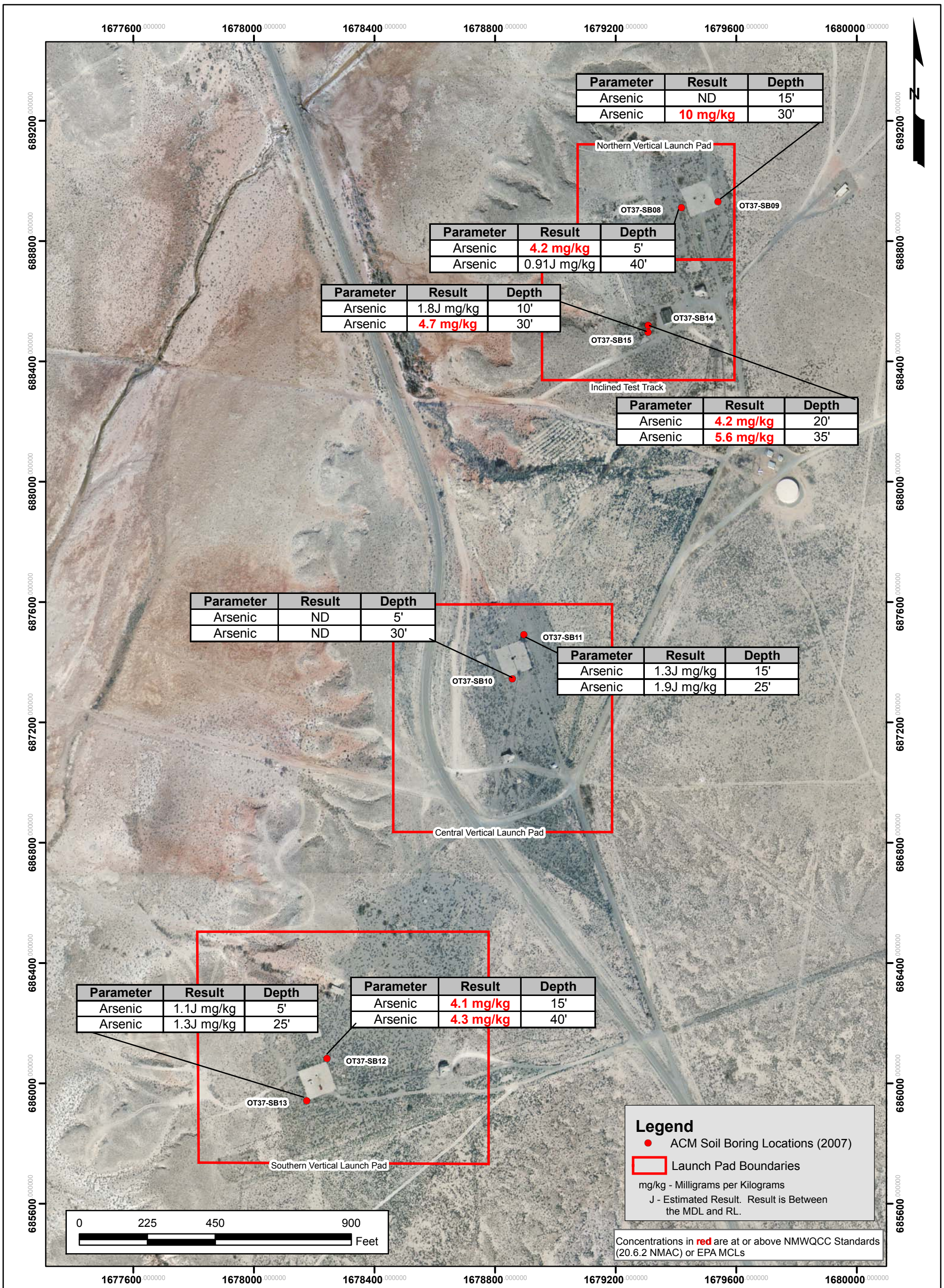
OT-37 Area
Potentiometric Surface Map

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	AS SHOWN	11/6/07	CM
			DRAWING NO: Figure3-9

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-9



Parameter	Result	Depth
Arsenic	ND	15'
Arsenic	10 mg/kg	30'

Parameter	Result	Depth
Arsenic	4.2 mg/kg	5'
Arsenic	0.91J mg/kg	40'

Parameter	Result	Depth
Arsenic	1.8J mg/kg	10'
Arsenic	4.7 mg/kg	30'

Parameter	Result	Depth
Arsenic	4.2 mg/kg	20'
Arsenic	5.6 mg/kg	35'

Parameter	Result	Depth
Arsenic	ND	5'
Arsenic	ND	30'

Parameter	Result	Depth
Arsenic	1.3J mg/kg	15'
Arsenic	1.9J mg/kg	25'

Parameter	Result	Depth
Arsenic	1.1J mg/kg	5'
Arsenic	1.3J mg/kg	25'

Parameter	Result	Depth
Arsenic	4.1 mg/kg	15'
Arsenic	4.3 mg/kg	40'

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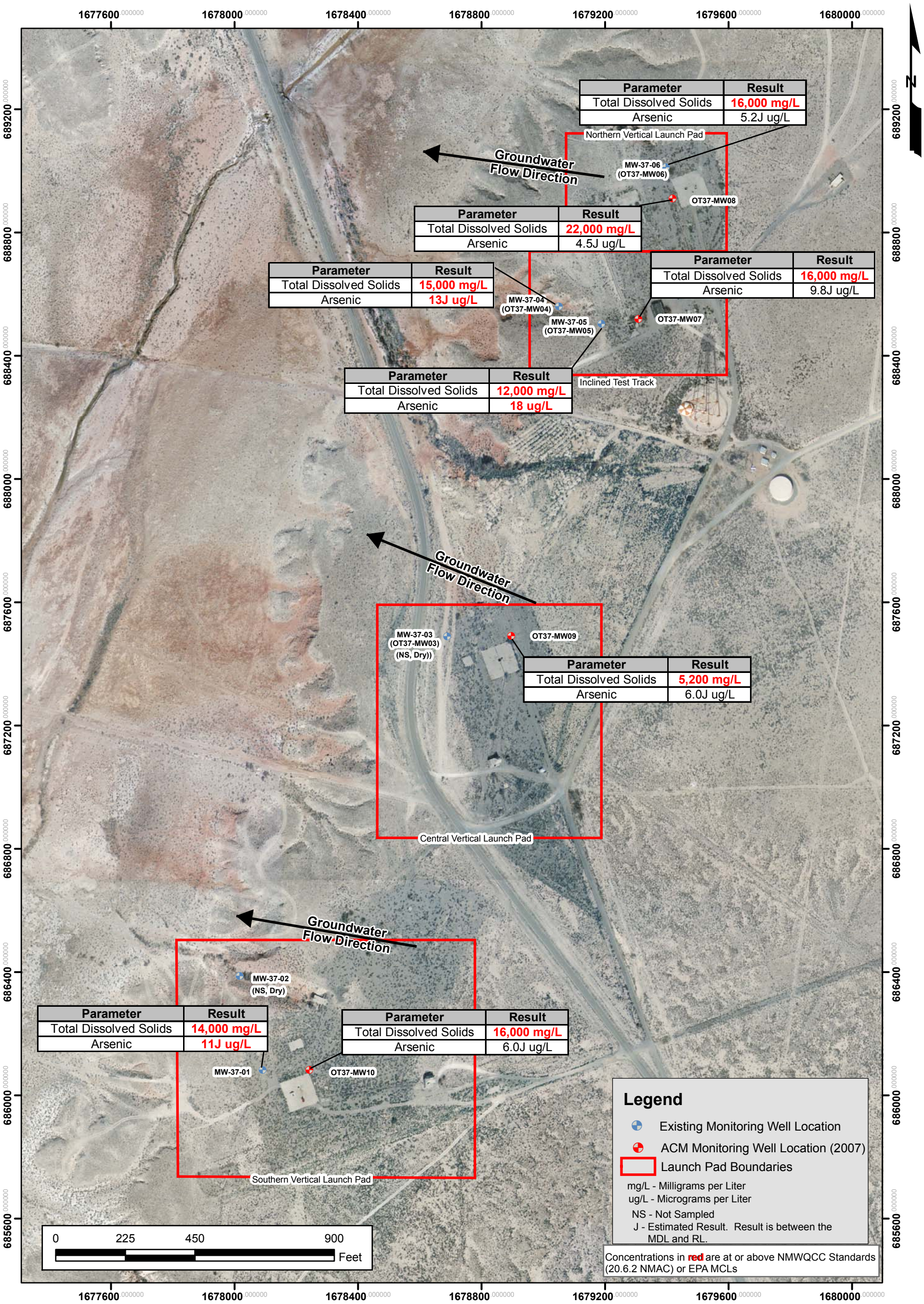
OT-37
Soil Analytical Results
(July 2007)

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	1"=300'	10/3/07	cm

DRAWING NO: Figure 4-5

Accelerated Corrective Measures Completion Report
Holloman AFB, New Mexico

Figure 4-5



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OT-37
Groundwater Analytical Results
(July 2007)

PROJECT NO.	SCALE	DATE	DRAWN BY:
9050361	1"=300'	10/3/07	cm

DRAWING NO: Figure 4-6

Accelerated Corrective Measures Completion Report
Holloman AFB, New Mexico

Figure 4-6

Appendix A-4-3 (OT-37)

Portions of the:

Final Release Assessment Report Site OT-37
Holloman Air Force Base, NM

NationView, LLC, February 2007

Table 7-5
ACM Addendum Subsurface Soil Anaytical Results (January 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SB16-2			OT37-SB16-8			OT37-SB17-2			OT37-SB17-9			OT37-SB18-2		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	**F70841-2**			**F70841-3**			**F70841-4**			**F70841-5**			**F70841-6**		
Date Sampled:			**1/14/2010**			**1/14/2010**			**1/14/2010**			**1/14/2010**			**1/15/2010**		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	3,050			6,100			4,660			7,390			12,000		
Arsenic	3.9	3.66	2.9	U		2.5	J		3.1	U		3.1	U		2.9	U	
Barium	15,600	169.25	33.9		J	50.4		J	87.2		J	52.8		J	81.7		J
Beryllium	156	1.53	0.1	J		0.29			0.23	J		0.38			0.52		
Cadmium	77.9	0.28	0.073	J		0.085	J		0.065	J		0.097	J		0.26		
Calcium	NV [5]	317,331.59	271,000		J	166,000		J	201,000		J	172,000		J	171,000		J
Chromium	219	24.95	2.6			5.6		J	4.4		J	7.2		J	9.6		J
Cobalt	23 [4]	7.70	1	J		2.1	J		1.7	J		2.4	J		3.6		J
Copper	3,130	12.96	1.9			2.7			3			3.3			9.2		J
Iron	54,800	23,049.48	2,240		J	4,690		J	3,630		J	5,720		J	8,450		J
Lead	400	10.87	3.4	J		3.2	J		6.5	J		4	J		7.5	J	
Magnesium	NV [5]	16,990.65	4,360		J	2,440		J	5,610		J	3,260		J	8,210		J
Manganese	10,700	393.47	54.1		J	88.3		J	97.1		J	80.6		J	299		J
Mercury	7.71	10.76	0.013	U		0.013	U		0.011	U		0.012	U		0.017	J	
Nickel	1,560	17.34	2	J		4.2		J	3.7		J	5.2		J	7.6		J
Potassium	NV [5]	5,077.12	1,310			2,060			1,930			2,420			4,620	J	
Selenium	391	0.18	1.7	U		1.5	U		1.9	U		1.9	U		1.7	U	
Sodium	NV [5]	5,195.97	5,850			1,950			4,450			1,600			798		
Vanadium	391	42.53	5.7		J	9.8		J	8.5		J	13.8		J	14.8		J
Zinc	23,500	54.53	5.8		J	12.4		J	10.4		J	15		J	30.5		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	5,250			2,710			8,800			2,840			2,710		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	3.0	U		3.1	U		15	U		3.1	U		2.8	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	27.9		J	12.0		J	83.5		J	13.9		J	121		J
	%	**%**	**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	79.2			77.3			80.1			77.5			85.8		

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
µmhos/cm = micromhos per centimeter
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifer

Data Qualifiers
U = Not detected
J = Indicates an estimated value

[1] NMED, December 2009. *Technical Background Document for Development of Soil Screening Levels* (SSL), Revision 5.0.
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[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December, 2009)
[5] No Value established for NMED Residential SSL (December, 2009) and USEPA RSL (December, 2009)
Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or USEPA RSLs (December 2009)
Indicates analytical results above the NMED Residential SSL or USEPA RSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but not above any applicable NMED Residential SSL or USEPA RSL

Client Sample Nomenclature
OT37 = Early Missle Test Site
SB = Soil Boring
Final digit(s) = Sample collection depth (feet below ground surface)
A = Field Duplicate

Table 7-5
ACM Addendum Subsurface Soil Anaytical Results (January 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SB18-35			OT37-SB19-2			OT37-SB19-9			OT37-SB20-2			OT37-SB20-13		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	**F70841-7**			**F70817-6**			**F70817-7**			**F70817-8**			**F70817-9**		
Date Sampled:			**1/15/2010**			**1/14/2010**			**1/14/2010**			**1/14/2010**			**1/14/2010**		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	13,000			2,660		J	5,480		J	3,980		J	18,400		J
Arsenic	3.9	3.66	3.2	U		3.4	U		2.7	U		2.9	U		3.2	J	
Barium	15,600	169.25	114		J	39.1			49.8		J	40.8		J	131		J
Beryllium	156	1.53	0.76			0.095	J		0.25		J	0.18	J	J	1.2		J
Cadmium	77.9	0.28	0.26			0.064	U		0.11	J		0.095	J		0.3		
Calcium	NV [5]	317,331.59	163,000		J	208,000			152,000		J	192,000		J	145,000		J
Chromium	219	24.95	11.9		J	2.2			4.6		J	4.1		J	17.6		J
Cobalt	23 [4]	7.70	4.7		J	1.1	J		1.6	J		1.6	J		6.2		J
Copper	3,130	12.96	8.4		J	2.1			2			2.7			11.7		J
Iron	54,800	23,049.48	10,500		J	1,990		J	3,770		J	3,590		J	14,900		J
Lead	400	10.87	7.8	J		2.5	J		3.2	J		5.4	J		12.5	J	
Magnesium	NV [5]	16,990.65	5,190		J	4,280		J	4,170		J	4,790		J	8,530		J
Manganese	10,700	393.47	233		J	77.8		J	76.2		J	71.4		J	161		J
Mercury	7.71	10.76	0.013	U		0.013	U		0.012	U		0.011	U		0.014	U	
Nickel	1,560	17.34	10.7		J	2.2	J		3.3		J	3		J	13.8		J
Potassium	NV [5]	5,077.12	3,970			1190		J	2,080		J	1,600		J	5,880		J
Selenium	391	0.18	1.9	U		8.1	J		1.6	U		1.8	U		1.8	U	
Sodium	NV [5]	5,195.97	1310			1,050		J	1,310		J	3,260		J	1,640		J
Vanadium	391	42.53	20.5		J	6.5		J	9		J	8.8		J	24.6		J
Zinc	23,500	54.53	32.3		J	5.8		J	10.4		J	9.4		J	44.1		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	1,390			5,150			2,690			4,570			974		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	3.2	U		3.5	U		3.1	U		2.9	U		3.3	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	1.7		J	13.3		J	6.0		J	52.9		J	6.8		J
	%	**%**	**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	76.1			68.8			76.6			83.9			72.4		

Notes:

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mg/kg = milligrams per kilogram
% = percent
NV = No Value
µmhos/cm = micromhos per centimeter
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifer

Data Qualifiers
U = Not detected
J = Indicates an estimated value

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Indicates analytical results above the Basewide Background UTL, but not above any established NMED Residential SSL or USEPA RSL

Client Sample Nomenclature
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Final digit(s) = Sample collection depth (feet below ground surface)
A = Field Duplicate

Table 7-5
ACM Addendum Subsurface Soil Anaytical Results (January 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**Basewide Background**	**OT37-SB21-2**			**OT37-SB21-29**			**OT37-SB22-2**			**OT37-SB22-9**			**OT37-SB23-2**		
Lab Sample Identification:	**NMED Residential[1]**	**Combined Soil UTL[2]**	**F70878-5**			**F70918-1**			**F70817-4**			**F70817-5**			**F70817-1**		
Date Sampled:			**1/19/2010**			**1/19/2010**			**1/14/2010**			**1/14/2010**			**1/14/2010**		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	6,820		J	13,500		J	5,840		J	5,900		J	3,570		J
Arsenic	3.9	3.66	2.8	U	UJ	1.3	J	J	2.8	U		1.6	J		3.2	U	
Barium	15,600	169.25	62.2		J	121		J	49.8			46.5			39.8		
Beryllium	156	1.53	0.38			1.1			0.45			0.39			0.11	J	
Cadmium	77.9	0.28	0.094	J	J	0.11	J	J	0.053	U		0.046	U		0.063	J	
Calcium	NV [5]	317,331.59	175,000		J	101,000		J	158,000			89,400			192,000		
Chromium	219	24.95	5.7		J	16.1		J	4.4		J	5.5		J	2.8		
Cobalt	23 [4]	7.70	2.3	J	J	6.1		J	3.6		J	2.5		J	1.3	J	
Copper	3,130	12.96	6		J	8.1		J	3.4			2.9			2.7		
Iron	54,800	23,049.48	5,160		J	12,000		J	4,090		J	4,840		J	2,650		J
Lead	400	10.87	4.5	J		8.9	J		7.6	J		3.8	J		2.7	J	
Magnesium	NV [5]	16,990.65	4,510		J	6,540		J	6,190		J	4,020		J	5,890		J
Manganese	10,700	393.47	146		J	180		J	179		J	94.9		J	66.8		J
Mercury	7.71	10.76	0.012	U		0.018	J		0.013	U		0.011	U		0.012	U	
Nickel	1,560	17.34	4.8		J	12.8		J	4.4		J	5.4		J	2.7		
Potassium	NV [5]	5,077.12	3,450			4,430		J	2,240		J	1780		J	1,550		J
Selenium	391	0.18	1.7	U		0.88	J		4.4	J		2.8	J		6.3	J	
Sodium	NV [5]	5,195.97	1,280			2,530		J	8,560		J	766		J	2,230		J
Vanadium	391	42.53	8.8		J	35.6		J	7.7		J	11.5		J	6.2		J
Zinc	23,500	54.53	20.2		J	42.6		J	12.1		J	16.8		J	10.1		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	3,350			950			8,890			1,030			4,500		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	2.8	U		3.1	U		16	U		2.6	U		3.0	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	19.4		J	6.8		J	79.1		J	4.1		J	41.3		J
	%	**%**	**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	85.8			76.7			76.3			93.9			80.7		

Notes:

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TAL = Target Analyte List
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mg/kg = milligrams per kilogram
% = percent
NV = No Value
µmhos/cm = micromhos per centimeter
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifer

Data Qualifiers
U = Not detected
J = Indicates an estimated value

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Client Sample Nomenclature
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Table 7-5
ACM Addendum Subsurface Soil Anaytical Results (January 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SB23-2-A			OT37-SB23-9			OT37-SB24-2			OT37-SB24-2-A			OT37-SB24-25		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	**F70817-2**			**F70817-3**			**F70878-2**			**F70878-3**			**F70878-4**		
Date Sampled:			**1/14/2010**			**1/14/2010**			**1/18/2010**			**1/18/2010**			**1/18/2010**		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	3,610		J	5,690		J	3,960		J	3,930		J	4,110		J
Arsenic	3.9	3.66	3.1	U		1.6	U		3.1	U	UJ	3.3	U	UJ	3	U	UJ
Barium	15,600	169.25	40.7			74.6			43.2		J	42.5		J	10.1	J	J
Beryllium	156	1.53	0.14	J		0.34			0.14	J		0.17	J		0.31		
Cadmium	77.9	0.28	0.059	U		0.061	U		0.058	U	UJ	0.062	U	UJ	0.057	U	UJ
Calcium	NV [5]	317,331.59	192,000			125,000			209,000		J	211,000		J	177,000		J
Chromium	219	24.95	2.9			5.4		J	3.2		J	3.2		J	4.2		J
Cobalt	23 [4]	7.70	1.4	J		2.4	J		1.3	J	J	1.3	J	J	1.6	J	J
Copper	3,130	12.96	2.5			3			3.5			3.2			1.9		
Iron	54,800	23,049.48	2,700		J	5,910		J	2,700		J	2,760		J	3,250		J
Lead	400	10.87	2	J		5.1	J		1.9	J		2.2	J		1.8	J	
Magnesium	NV [5]	16,990.65	6,030		J	4,590		J	4,650		J	4,700		J	2,410		J
Manganese	10,700	393.47	67.7		J	45.5		J	67.8		J	69.6		J	36.9		J
Mercury	7.71	10.76	0.011	U		0.012	U		0.011	U		0.013	U		0.013	U	
Nickel	1,560	17.34	2.7			4.9		J	2.7		J	2.7		J	3.1		J
Potassium	NV [5]	5,077.12	1,560		J	2,240		J	2,320			2,240			1,700		
Selenium	391	0.18	6.2	J		3.7	J		2.5	J		2	U		1.9	J	
Sodium	NV [5]	5,195.97	2,130		J	931		J	1,690			1,520			258	J	
Vanadium	391	42.53	6.4		J	10.1		J	6.9		J	7.5		J	7		J
Zinc	23,500	54.53	8.5		J	13.7		J	10.5		J	10.8		J	10.4		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	4,560			1,150			3,680			3,340			1,990		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	3.0	U		3.0	U		3.0	U		3.0	U		3.1	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	38.9		J	3.5		J	12.9		J	14.6		J	1.6		J
	%	**%**	**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	80.5			80.2			81.1			79.4			78.9		

Notes:

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µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
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Table 7-6
ACM Addendum Surface Soil Anaytical Results (February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SS01-02			OT37-SS02-02			OT37-SS03-02			OT37-SS04-02			OT37-SS05-02			OT37-SS06-02		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	F71431-8			F71431-7			F71431-6			F71431-5			F71431-4			F71431-3		
Date Sampled:			2/16/2010			2/16/2010			2/16/2010			2/16/2010			2/16/2010			2/16/2010		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	6,180		J	3,180		J	4,870		J	2,790		J	628		J	5,030		J
Barium	15,600	169.25	58.4	J		41.8	J		55.1	J		34.8	J		12.8	J		53.7	J	
Cadmium	77.9	0.28	0.54	U		0.56	U		0.53	U		0.46	U		0.44	U		0.49	U	
Calcium	NV [5]	317,331.59	133,000		J	184,000		J	168,000		J	129,000		J	152,000		J	172,000		J
Chromium	219	24.95	5.8			2.8	J		4.4	J		3.2	J		0.73	J		4.6	J	
Cobalt	23 [4]	7.70	2.2	J		1.3	J		1.8	J		1.7	J		0.49	J		1.8	J	
Copper	3,130	12.96	4.6	J		2.7	J		4.1	J		7.6	J		2.5	J		4.2	J	
Iron	54,800	23,049.48	5,420		J	2,680		J	3,840		J	4,390		J	437		J	4,130		J
Lead	400	10.87	12.8	J		2.9	J		3.6	J		3.8	J		2.1	J		2.8	J	
Magnesium	NV [5]	16,990.65	5600		J	4,880		J	9,810		J	3,360		J	1,590	J		4,770		J
Manganese	10,700	393.47	134			58.9			89.7			62.1			9.8			113		
Nickel	1,560	17.34	5.4	J		2.4	J		3.4	J		6.7	J		0.98	J		3.8	J	
Potassium	NV [5]	5,077.12	1,780	J		1,130	J		1,760	J		913	J		339	J		1,690	J	
Selenium	391	0.18	2	J		3.1	J		1.9	J		2.3	J		1.8	J		2.3	J	
Silver	391	65	0.6	U	UJ	0.61	U	UJ	0.58	J	J	0.51	U	UJ	0.49	U	UJ	0.54	U	UJ
Sodium	NV [5]	5,195.97	270	U	UJ	280	U	UJ	2,380	J	J	244	J	J	225	J	J	250	U	UJ
Vanadium	391	42.53	10.2	J		6.4	J		8.4	J		6	J		3.1	J		7.8	J	
Zinc	23,500	54.53	17.2			8.3	J		11.8			9.7			3.9	J		12.3		
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	1,660			1,620			2,860			1,720			1,700			2,090		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	2.8	U		2.8	U		48.6		J	2.7	U		2.6	U		2.7	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	0.58	U		1.7		J	1.6		J	1.8		J	1.3		J	6.2		
	%	**%**	**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	86.7			86.6			86.2			88.0			94.5			90.2		

Notes:

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TAL = Target Analyte List
umhos/cm = micromhos per centimeter
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
NV = No Value
Q = Laboratory Qualifier
Q1 = Valadating Chemist Qualifier

Data Qualifiers
U = Not detected
J = Indicates an estimated value

Client Sample Nomenclature
OT37 = Early Missile Test Test
SS = Surface Soil
A = Field Duplicate
Final digit = Sample collection depth (feet below ground surface)

[1] NMED, December 2009. *Technical Background Document for Development of Soil Screening Levels* (SSL), Revision 5.0.
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[4] USEPA Region 3, 6, and 9 Regional Screening Levels (RSLs) (December 2009)
[5] No Value established for NMED Residential SSL (December 2009) and USEPA RSL (December 2009)

Bold value indicates analytes above NMED SSLs (Rev 5.0, December 2009) or USEPA RSLs (December 2009)
Indicates analytical results above the NMED Residential SSL or USEPA RSL, but below the Basewide Background UTL
Indicates analytical results above the Basewide Background UTL, but below the NMED Residential SSL or USEPA RSL

Table 7-6
ACM Addendum Surface Soil Anaytical Results (February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SS07-02			OT37-SS08-02			OT37-SS09-02			OT37-SS09-02-A			OT37-SS10-02			OT37-SS11-02		
Lab Sample Identification:	**NMED Residential[1]**	**Combined Soil UTL[2]**	**F71431-2**			**F71431-1**			**F71432-9**			**F71432-10**			**F71432-8**			**F71432-7**		
Date Sampled:			**2/16/2010**			**2/16/2010**			**2/15/2010**			**2/15/2010**			**2/15/2010**			**2/15/2010**		
Analyte (Method)			**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**	**Result [3]**	**Q**	**Q1**
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	2,800		J	3,160		J	682			722			1,790			1,570		
Barium	15,600	169.25	41.6	J		42.8	J		20.1	J	J	20.4	J	J	24.1	J	J	26.6	J	J
Cadmium	77.9	0.28	0.56	U		0.53	U		0.57	U		0.47	U		1.7	J		0.48	U	
Calcium	NV [5]	317,331.59	183,000		J	147,000		J	195,000		J	139,000		J	190,000		J	161,000		J
Chromium	219	24.95	2.6	J		3.1	J		0.8	J	J	0.73	J	J	4.7	J	J	1.8	J	J
Cobalt	23 [4]	7.70	1.2	J		1.3	J		0.59	J	J	0.35	U	UJ	0.72	J	J	0.86	J	J
Copper	3,130	12.96	3.4	J		4.4	J		1.7	J		1.6	J		5.1	J		5.5	J	
Iron	54,800	23,049.48	2,220		J	2,680		J	792			742			2,150			1,480		
Lead	400	10.87	1.6	J		4.7	J		1.4	U		1.1	U		45.2	J		14.5	J	
Magnesium	NV [5]	16,990.65	5,730		J	5,160		J	1,290	J	J	1,210	J	J	2,940		J	2,940		J
Manganese	10,700	393.47	47.3			62.7			15			16.3			45.8			40.2		
Nickel	1,560	17.34	2.6	J		3	J		1.1	J		1.3	J		2.3	J		1.5	J	
Potassium	NV [5]	5,077.12	1,020	J		1,010	J		477	J	J	425	J	J	636	J	J	648	J	J
Selenium	391	0.18	3	J		1.7	U		2.1	J	J	1.5	U	UJ	2.2	J	J	2.6	J	J
Silver	391	65	0.62	U	UJ	0.59	U	UJ	0.63	U		0.51	U		0.61	U		0.52	U	
Sodium	NV [5]	5,195.97	352	J	J	285	J	J	570	J	J	338	J	J	280	U		375	J	
Vanadium	391	42.53	6.4	J		6.2	J		2.2	J	J	1.9	J	J	5	J	J	4.1	J	J
Zinc	23,500	54.53	7.5	J		13.5			2.7	J	J	2.8	J	J	18.4		J	21.3		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	1,590			1,900			2,280			1,980			1,700			1,980		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	2.7	U		2.7	U		53.2			40.9			2.8	U		2.7	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	10.4			2.8			7.0		J	6.6		J	9.1		J	33.2		J
	%	**%**	**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	88.7			89.3			86.9			87.0			86.7			90.4		

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% = percent
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Q = Laboratory Qualifier
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Table 7-6
ACM Addendum Surface Soil Anaytical Results (February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Soil Screening Levels	Basewide Background	OT37-SS12-02			OT37-SS13-02			OT37-SS13-02-A			OT37-SS14-02			OT37-SS15-02			OT37-SS16-02		
Lab Sample Identification:	NMED Residential[1]	Combined Soil UTL[2]	F71432-6			F71432-4			F71432-5			F71432-3			F71432-2			F71432-1		
Date Sampled:			2/15/2010			2/15/2010			2/15/2010			2/15/2010			2/15/2010			2/15/2010		
Analyte (Method)			Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1	Result [3]	Q	Q1
TAL Metals Analysis (6010B/7471A)	**mg/kg**	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Aluminum	78,100	13,722.27	2,800			5,880			5,570			5,540			5,770			7,000		
Barium	15,600	169.25	34.7	J	J	52	J	J	55.8	J	J	45.1	J	J	53.6	J	J	65.1	J	J
Cadmium	77.9	0.28	0.49	U		0.54	U		0.42	U		1	J		0.52	U		0.45	U	
Calcium	NV [5]	317,331.59	157,000		J	160,000		J	161,000		J	151,000		J	167,000		J	156,000		J
Chromium	219	24.95	2.7	J	J	10.7		J	7		J	11.7		J	6.7		J	9.1		J
Cobalt	23 [4]	7.70	0.97	J	J	2.5	J	J	2.4	J	J	3	J	J	2.2	J	J	3.1	J	J
Copper	3,130	12.96	2.6	J		5.6	J		5.1	J		7	J		4.4	J		6	J	
Iron	54,800	23,049.48	2,460			7,400			5,900			8,990			5,430			7,750		
Lead	400	10.87	1.7	J		55.7		J	19.6	J	J	**496**		J	5	J		4.8	J	
Magnesium	NV [5]	16,990.65	3,820		J	5,410		J	5,630		J	7,400		J	6,380		J	9,690		J
Manganese	10,700	393.47	58.2			150			147			203			118			252		
Nickel	1,560	17.34	2.3	J		10.2	J		6.3	J		9.4	J		5.6	J		7.3	J	
Potassium	NV [5]	5,077.12	963	J	J	2,010	J	J	2,320	J	J	1,600	J	J	1,950	J	J	2,110	J	J
Selenium	391	0.18	1.6	U	UJ	2.2	J	J	1.3	J	J	2	J	J	2.6	J	J	1.4	J	J
Silver	391	65	0.54	U		0.59	U		0.46	U		0.51	U		0.57	U		0.49	U	
Sodium	NV [5]	5,195.97	260	J		556	J		544	J		490	J		260	U		587	J	
Vanadium	391	42.53	5.7	J	J	11.2	J	J	10	J	J	11.4	J	J	10.2	J	J	13	J	J
Zinc	23,500	54.53	8.8	J	J	27.6		J	19.1		J	37.7		J	18.1		J	26.6		J
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (102.1 M)	NV	NV	1,610			2,060			1,800			1,960			1,850			1,990		
	mg/kg	**mg/kg**	**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**			**µg/kg**		
Perchlorate (314M)	54.8	NV	2.8	U		2.7	U		2.7	U		2.7	U		2.7	U		2.7	U	
	mg/kg	**mg/kg**	**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**			**mg/kg**		
Nitrogen, Nitrate (9056)	125,000	NV	0.58	U	UJ	5.5		J	5.9		J	5.4		J	1.1		J	2.7		J
	%	**%**	**%**			**%**			**%**			**%**			**%**			**%**		
Solids, Percent (2540B M)	NV	NV	86.2			90.2			90.1			89.0			88.8			87.8		

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Table 7-7
ACM Addendum Groundwater Anaytical Results (January-February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW01			OT37-MW01			OT37-MW01-A			OT37-MW03			OT37-MW03			OT37-MW04			OT37-MW04			OT37-MW05			OT37-MW05		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F70796-4			280-631-9			F70796-3			F70796-1			280-631-7			F70758-4			280-631-5			F70758-3			280-631-4		
Date Sampled:				1/13/2010			2/16/2010			1/13/2010			1/13/2010			2/16/2010			1/13/2010			2/16/2010			1/12/2010			2/16/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50 [5]	54	34.5	J	J	NA			**55.1**	J	J	13.0	J		NA			44.7	J		NA			30.8	J		NA		
Arsenic	100	10	28.53	17.4	J	J	NA			12.9	J	J	13.1		J	NA			13.2	J	J	NA			21.7		J	NA		
Barium	1,000	2,000	30.13	8.5	J		NA			8.4	J		14.4	J		NA			12.0	J		NA			10.6	J		NA		
Calcium	NV	NV	1,151,301.20	620,000			NA			626,000			452,000			NA			725,000			NA			603,000			NA		
Chromium	50	100	2.5	1.0	U		NA			1.0	U		1.0	U		NA			1.0	U		NA			1.0	U		NA		
Cobalt	50	NV	2.6	1.0	U		NA			1.0	U		1.0	U		NA			1.0	U		NA			1.0	U		NA		
Copper	1,000	1,300	57.46	3.3	J	J	NA			3.9	J	J	4.3	J	J	NA			4.0	J	J	NA			5.4	J	J	NA		
Iron	1,000	300 [5]	65.56	32	U		NA			32	U		16	U		NA			32	U		NA			113	J		NA		
Lead	50	15	2.6	4.2	U		NA			4.2	U		2.1	U		NA			4.2	U		NA			4.2	U		NA		
Magnesium	NV	NV	3,630,926.70	767,000			NA			780,000			374,000			NA			591,000			NA			478,000			NA		
Manganese	200	50 [5]	118.65	1.0	U		NA			1.0	U		3.1	J		NA			1.0	U		NA			1.0	U		NA		
Nickel	200	NV	15.89	3.3	J	J	NA			2.0	U	UJ	2.9	J	J	NA			2.0	U	UJ	NA			2.0	U	UJ	NA		
Potassium	NV	NV	120,479.98	36,500		J	NA			35,600		J	23,900		J	NA			43,500		J	NA			36,200		J	NA		
Selenium	50	50	25.26	35.7			NA			38.9			4.4	J		NA			41.2			NA			34.0			NA		
Silver	50	100 [5]	0.93	1.0	U		NA			1.0	U		1.0	U		NA			1.0	U		NA			1.0	U		NA		
Sodium	NV	NV	19,972,499.00	2,570,000			NA			2,460,000			1,240,000			NA			2,730,000			NA			2,070,000			NA		
Thallium	NV	2	4.9	4.3	U		NA			4.3	U		4.3	U		NA			4.3	U		NA			4.3	U		NA		
Vanadium	NV	NV	73.73	34.6	J		NA			33.1	J		30.2	J		NA			25.8	J		NA			33.8	J		NA		
Zinc	10,000	5,000 [5]	56.28	5.0	U		NA			5.0	U		5.0	U		NA			5.0	U		NA			5.0	U		NA		
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (120.1)	NV	NV	NV	16500			NA			16200			7850			NA			16300			NA			13000			NA		
	mg/L	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	0.050	U		NA			0.050	U		0.050	U		NA			0.050	U		NA			0.050	U		NA		
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	14,000		J	NA			20,000		J	7,600		J	NA			7,200		J	NA			10,300		J	NA		
Chloride (9056)	250	250 [5]	35,039.73 [7]	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	42.0			NA			54.2			19.1			NA			43.8		J	NA			25.7		J	NA		
Sulfate (9056)	600	250 [5]	17,418.99 [7]	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	µg/L	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate (314)	NV	15 [6]	NV	80	U		5.8			80	U		40	U		12			80	U		0.37			80	U		1.8		
Forensic Nitrate Analysis	**TU**	**TU**	**TU**	**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**		
Tritium	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	‰	**‰**	**‰**	**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**		
$\delta^{15}N\ NO_3^-$	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA			NA		
$\delta^{18}O\ NO_3^-$	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA			NA		

Notes:

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UTL = Upper Tolerance Limit
TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
µmhos/cm = micromhos per centimeter
$CaCO_3$ = Calcium Carbonate
NV = No Value
NA = Not Analyzed
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
TU = Tritium Unit
$\delta^{15}N\ NO_3^-$ = Delta Nitrogen[15] of Nitrate
$\delta^{18}O\ NO_3^-$ = Delta Oxygen[18] of Nitrate
‰ = a tenth of a percent (one part in a thousand)

Data Qualifiers
U = Not detected
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Client Sample Nomenclature
OT37 = Early Missile Test Site
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Table 7-7
ACM Addendum Groundwater Anaytical Results (January-February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW06			OT37-MW06			OT37-MW06			OT37-MW06			OT37-MW06-A			OT37-MW06-A			OT37-MW06-A			OT37-MW07			OT37-MW07		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F70717-1			F70758-1			12442-178256			280-631-1			F70717-2			F70758-2			12442-178257			F70726-1			280-631-3		
Date Sampled:				1/11/2010			1/12/2010			1/12/2010			2/16/2010			1/11/2010			1/12/2010			1/12/2010			1/12/2010			2/16/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50 [5]	54	**61.0**	J		NA			NA			NA			55	U		NA			NA			34.6	J		NA		
Arsenic	100	10	28.53	27	U		NA			NA			NA			27	U		NA			NA			19.4	J	J	NA		
Barium	1,000	2,000	30.13	25	U		NA			NA			NA			25	U		NA			NA			11.6	J		NA		
Calcium	NV	NV	1,151,301.20	970,000		J	NA			NA			NA			997,000		J	NA			NA			608,000			NA		
Chromium	50	100	2.5	10	U		NA			NA			NA			10	U		NA			NA			1.0	U		NA		
Cobalt	50	NV	2.6	5.0	U		NA			NA			NA			5.0	U		NA			NA			1.0	U		NA		
Copper	1,000	1,300	57.46	25	U		NA			NA			NA			25	U		NA			NA			4.8	J	J	NA		
Iron	1,000	300 [5]	65.56	120	U		NA			NA			NA			120	U		NA			NA			119	J		NA		
Lead	50	15	2.6	10	U		NA			NA			NA			10	U		NA			NA			4.2	U		NA		
Magnesium	NV	NV	3,630,926.70	835,000			NA			NA			NA			855,000			NA			NA			495,000			NA		
Manganese	200	50 [5]	118.65	5.0	U		NA			NA			NA			5.0	U		NA			NA			1.0	U		NA		
Nickel	200	NV	15.89	12	U		NA			NA			NA			12	U		NA			NA			2.2	J	J	NA		
Potassium	NV	NV	120,479.98	50,100		J	NA			NA			NA			50,900		J	NA			NA			36,200		J	NA		
Selenium	50	50	25.26	19.2	J		NA			NA			NA			17	U		NA			NA			35.0			NA		
Silver	50	100 [5]	0.93	7.0	U		NA			NA			NA			7.0	U		NA			NA			1.0	U		NA		
Sodium	NV	NV	19,972,499.00	3,150,000			NA			NA			NA			3,180,000			NA			NA			2,090,000			NA		
Thallium	NV	2	4.9	**20.2**	J		NA			NA			NA			18	U		NA			NA			4.3	U		NA		
Vanadium	NV	NV	73.73	28.9	J		NA			NA			NA			29.3	J		NA			NA			40.3	J		NA		
Zinc	10,000	5,000 [5]	56.28	37	U		NA			NA			NA			37	U		NA			NA			5.0	U		NA		
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (120.1)	NV	NV	NV	21400			NA			NA			NA			20700			NA			NA			12700			NA		
	mg/L	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	0.050	U		NA			NA			NA			0.050	U		NA			NA			0.050	U		NA		
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	NA			105			NA			NA			NA			106			NA			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	17,500			NA			NA			NA			14,200			NA			NA			16,100			NA		
Chloride (9056)	250	250 [5]	35,039.73 [7]	NA			4,180			NA			NA			NA			4,660			NA			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	37.1			NA			NA			NA			36.0			NA			NA			16.8			NA		
Sulfate (9056)	600	250 [5]	17,418.99 [7]	NA			1340		J	NA			NA			NA			1,610		J	NA			NA			NA		
	µg/L	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate (314)	NV	15 [6]	NV	100	U		NA			NA			2.8			100	U		NA			NA			80	U		1.5		
Forensic Nitrate Analysis	**TU**	**TU**	**TU**	**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**		
Tritium	NV	NV	NV	NA			NA			<10.0			NA			NA			NA			<10.0			NA			NA		
	‰	**‰**	**‰**	**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**			**‰**		
$\delta^{15}N\ NO_3^-$	NV	NV	NV	NA			NA			5.8			NA			NA			NA			5.6			NA			NA		
$\delta^{18}O\ NO_3^-$	NV	NV	NV	NA			NA			7.0			NA			NA			NA			6.9			NA			NA		

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µmhos/cm = micromhos per centimeter
$CaCO_3$ = Calcium Carbonate
NV = No Value
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Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
TU = Tritium Unit
$\delta^{15}N\ NO_3^-$ = Delta Nitrogen[15] of Nitrate
$\delta^{18}O\ NO_3^-$ = Delta Oxygen[18] of Nitrate
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Table 7-7
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OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW08			OT37-MW08			OT37-MW09			OT37-MW09			OT37-MW09			OT37-MW10			OT37-MW10			OT37-MW10			OT37-MW10		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F70717-3			280-631-2			F70796-2			12450-178366			280-631-6			F70841-1			F70878-1			12450-178367			280-631-8		
Date Sampled:				1/11/2010			2/16/2010			1/13/2010			1/14/2010			2/16/2010			1/14/2010			1/18/2010			1/14/2010			2/16/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Aluminum	5,000	50 [5]	54	**71.3**	J		NA			13	U		NA			NA			42.9	J		NA			NA			NA		
Arsenic	100	10	28.53	27	U		NA			11.7		J	NA			NA			17.1	J	J	NA			NA			NA		
Barium	1,000	2,000	30.13	25	U		NA			15.9	J		NA			NA			14.4	J		NA			NA			NA		
Calcium	NV	NV	1,151,301.20	1,300,000		J	NA			484,000			NA			NA			653,000			NA			NA			NA		
Chromium	50	100	2.5	10	U		NA			1.0	U		NA			NA			1.0	U		NA			NA			NA		
Cobalt	50	NV	2.6	5.0	U		NA			1.0	U		NA			NA			1.0	U		NA			NA			NA		
Copper	1,000	1,300	57.46	25	U		NA			2.9	J	J	NA			NA			4.2	J	J	NA			NA			NA		
Iron	1,000	300 [5]	65.56	120	U		NA			16	U		NA			NA			91.2	J		NA			NA			NA		
Lead	50	15	2.6	10	U		NA			2.1	U		NA			NA			4.2	U		NA			NA			NA		
Magnesium	NV	NV	3,630,926.70	980,000			NA			286,000			NA			NA			916,000			NA			NA			NA		
Manganese	200	50 [5]	118.65	5.0	U		NA			1.0	U		NA			NA			1.0	U		NA			NA			NA		
Nickel	200	NV	15.89	12	U		NA			2.0	U	UJ	NA			NA			2.0	U	UJ	NA			NA			NA		
Potassium	NV	NV	120,479.98	58,500		J	NA			18,500		J	NA			NA			45,700		J	NA			NA			NA		
Selenium	50	50	25.26	17	U		NA			8.5	J		NA			NA			45.5			NA			NA			NA		
Silver	50	100 [5]	0.93	7.0	U		NA			1.0	U		NA			NA			1.0	U		NA			NA			NA		
Sodium	NV	NV	19,972,499.00	3,710,000			NA			716,000			NA			NA			2,910,000			NA			NA			NA		
Thallium	NV	2	4.9	18	U		NA			4.3	U		NA			NA			4.3	U		NA			NA			NA		
Vanadium	NV	NV	73.73	23.8	J		NA			31.9	J		NA			NA			35.3	J		NA			NA			NA		
Zinc	10,000	5,000 [5]	56.28	37	U		NA			5.0	U		NA			NA			5.0	U		NA			NA			NA		
General Chemistry	µmhos/cm	µmhos/cm	µmhos/cm	µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm			µmhos/cm		
Specific Conductivity (120.1)	NV	NV	NV	26900			NA			5990			NA			NA			15900			NA			NA			NA		
	mg/L	mg/L	mg/L	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	0.050	U		NA			0.050	U		NA			NA			0.050	U		NA			NA			NA		
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	NA			NA			89.2			NA			NA			118			NA			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	25,700			NA			5,600		J	NA			NA			13,300			NA			NA			NA		
Chloride (9056)	250	250 [5]	35,039.73 [7]	NA			NA			643			NA			NA			3,130			NA			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	36.5			NA			12.8			NA			NA			NA			62.1		J	NA			NA		
Sulfate (9056)	600	250 [5]	17,418.99 [7]	NA			NA			2,210		J	NA			NA			2,700		J	NA			NA			NA		
	µg/L	µg/L	µg/L	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Perchlorate (314)	NV	15 [6]	NV	100	U		2.1			40	U		NA			2.7			80	U		NA			NA			6.1		
Forensic Nitrate Analysis	TU	TU	TU	TU			TU			TU			TU			TU			TU			TU			TU			TU		
Tritium	NV	NV	NV	NA			NA			NA			< 10.0			NA			NA			NA			< 10.0			NA		
	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$		
$\delta\ ^{15}N\ NO_3^-$	NV	NV	NV	NA			NA			NA			4.9			NA			NA			NA			6.1			NA		
$\delta\ ^{18}O\ NO_3^-$	NV	NV	NV	NA			NA			NA			7.4			NA			NA			NA			6.5			NA		

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OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW11			OT37-MW11			OT37-MW11			OT37-MW11-A			OT37-MW12			OT37-MW12			OT37-MW13			OT37-MW13			OT37-MW14		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F71483-3			12578-180208			280-735-8			280-735-9			F71483-2			280-735-7			F71448-3			280-735-3			F71483-1		
Date Sampled:				2/18/2010			2/18/2010			2/18/2010			2/18/2010			2/17/2010			2/17/2010			2/16/2010			2/16/2010			2/17/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50 [5]	54	52	U		NA			NA			NA			52	U		NA			130	U		NA			26	U	
Arsenic	100	10	28.53	22	U		NA			NA			NA			22	U		NA			54	U		NA			22	U	
Barium	1,000	2,000	30.13	53.9	J		NA			NA			NA			45.9	J		NA			50	U		NA			32.2	J	
Calcium	NV	NV	1,151,301.20	1,110,000			NA			NA			NA			1,050,000			NA			783,000			NA			1,270,000		
Chromium	50	100	2.5	1.0	U		NA			NA			NA			1.0	J		NA			10	U		NA			1.0	J	
Cobalt	50	NV	2.6	1.0	U		NA			NA			NA			2.0	J		NA			10	U		NA			1.5	J	
Copper	1,000	1,300	57.46	9.4	J		NA			NA			NA			8.7	J		NA			25	U		NA			7.0	J	
Iron	1,000	300 [5]	65.56	64	U		NA			NA			NA			64	U		NA			160	U		NA			32	U	
Lead	50	15	2.6	8.4	U		NA			NA			NA			8.4	U		NA			21	U		NA			8.4	U	
Magnesium	NV	NV	3,630,926.70	1,280,000			NA			NA			NA			980,000			NA			404,000			NA			650,000		
Manganese	200	50 [5]	118.65	**231**			NA			NA			NA			**305**			NA			**229**			NA			**407**		
Nickel	200	NV	15.89	5.9	J		NA			NA			NA			3.9	J		NA			20	U		NA			3.8	J	
Potassium	NV	NV	120,479.98	76,700		J	NA			NA			NA			63,300		J	NA			24,600	J	J	NA			53,600		J
Selenium	50	50	25.26	14	U		NA			NA			NA			27.9	J		NA			36	U		NA			14	U	
Silver	50	100 [5]	0.93	1.4	J		NA			NA			NA			1.0	U		NA			10	U		NA			1.0	U	
Sodium	NV	NV	19,972,499.00	5,340,000			NA			NA			NA			3,990,000			NA			1,930,000			NA			2,750,000		
Thallium	NV	2	4.9	4.3	U		NA			NA			NA			4.3	U		NA			43	U		NA			4.3	U	
Vanadium	NV	NV	73.73	8.4	J		NA			NA			NA			9.2	J		NA			7.3	U		NA			12.0	J	
Zinc	10,000	5,000 [5]	56.28	5.7	J		NA			NA			NA			5.0	U		NA			50	U		NA			5.7	J	
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (120.1)	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	mg/L	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	0.050	U		NA			NA			NA			0.20			NA			0.050	U	UJ	NA			0.050	U	
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	137			NA			NA			NA			NA			NA			NA			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	22,600		J	NA			NA			NA			18,000		J	NA			9,560		J	NA			16,100		J
Chloride (9056)	250	250 [5]	35,039.73 [7]	9,750			NA			NA			NA			NA			NA			NA			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	47.1			NA			NA			NA			74.7		J	NA			22.1			NA			24.3		J
Sulfate (9056)	600	250 [5]	17,418.99 [7]	2,640		J	NA			NA			NA			NA			NA			NA			NA			NA		
	µg/L	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate (314)	NV	15 [6]	NV	NA			NA			5.1			4.9			NA			11			NA			0.97			NA		
Forensic Nitrate Analysis	**TU**	**TU**	**TU**	**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**		
Tritium	NV	NV	NV	NA			< 10.0			NA			NA			NA			NA			NA			NA			NA		
	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$		
$\delta\ ^{15}N\ NO_3^-$	NV	NV	NV	NA			5.9			NA			NA			NA			NA			NA			NA			NA		
$\delta\ ^{18}O\ NO_3^-$	NV	NV	NV	NA			8.8			NA			NA			NA			NA			NA			NA			NA		

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TAL = Target Analyte List
µg/L = micrograms per liter
mg/L = milligrams per liter
µmhos/cm = micromhos per centimeter
$CaCO_3$ = Calcium Carbonate
NV = No Value
NA = Not Analyzed
Q = Laboratory Qualifier
Q1 = Validating Chemist Qualifier
TU = Tritium Unit
$\delta\ ^{15}N\ NO_3^-$ = Delta Nitrogen[15] of Nitrate
$\delta\ ^{18}O\ NO_3^-$ = Delta Oxygen[18] of Nitrate
$^0/_{00}$ = a tenth of a percent (one part in a thousand)

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Table 7-7
ACM Addendum Groundwater Anaytical Results (January-February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW14			OT37-MW15			OT37-MW15			OT37-MW15			OT37-MW15-A			OT37-MW16			OT37-MW16			OT37-MW16			OT37-MW16		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	280-735-6			F71448-4			12578-180207			280-735-4			280-735-5			F71553-1			F71537-1			12578-180209			280-786-1		
Date Sampled:				2/17/2010			2/17/2010			2/17/2010			2/17/2010			2/17/2010			2/21/2010			2/22/2010			2/21/2010			2/21/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50 [5]	54	NA			130	U		NA			NA			NA			130	U		NA			NA			NA		
Arsenic	100	10	28.53	NA			54	U		NA			NA			NA			54	U		NA			NA			NA		
Barium	1,000	2,000	30.13	NA			50	U		NA			NA			NA			50	U		NA			NA			NA		
Calcium	NV	NV	1,151,301.20	NA			793,000			NA			NA			NA			938,000			NA			NA			NA		
Chromium	50	100	2.5	NA			10	U		NA			NA			NA			10	U		NA			NA			NA		
Cobalt	50	NV	2.6	NA			10	U		NA			NA			NA			10	U		NA			NA			NA		
Copper	1,000	1,300	57.46	NA			25	U		NA			NA			NA			25	U		NA			NA			NA		
Iron	1,000	300 [5]	65.56	NA			160	U		NA			NA			NA			160	U		NA			NA			NA		
Lead	50	15	2.6	NA			21	U		NA			NA			NA			21	U		NA			NA			NA		
Magnesium	NV	NV	3,630,926.70	NA			489,000			NA			NA			NA			889,000			NA			NA			NA		
Manganese	200	50 [5]	118.65	NA			36.8	J		NA			NA			NA			37.9	J		NA			NA			NA		
Nickel	200	NV	15.89	NA			20	U		NA			NA			NA			20	U		NA			NA			NA		
Potassium	NV	NV	120,479.98	NA			25,200	J	J	NA			NA			NA			43,700	J	J	NA			NA			NA		
Selenium	50	50	25.26	NA			36	U		NA			NA			NA			36	U		NA			NA			NA		
Silver	50	100 [5]	0.93	NA			10	U		NA			NA			NA			10	U		NA			NA			NA		
Sodium	NV	NV	19,972,499.00	NA			2,030,000			NA			NA			NA			3,530,000		J	NA			NA			NA		
Thallium	NV	2	4.9	NA			43	U		NA			NA			NA			43	U		NA			NA			NA		
Vanadium	NV	NV	73.73	NA			21.6	J		NA			NA			NA			24.2	J		NA			NA			NA		
Zinc	10,000	5,000 [5]	56.28	NA			50	U		NA			NA			NA			50	U		NA			NA			NA		
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (120.1)	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	mg/L	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	NA			0.050	U	UJ	NA			NA			NA			0.050	U		NA			NA			NA		
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	NA			123			NA			NA			NA			NA			81.1			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	NA			10,200		J	NA			NA			NA			15,800			NA			NA			NA		
Chloride (9056)	250	250 [5]	35,039.73 [7]	NA			3,130			NA			NA			NA			NA			6,320			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	NA			72.8			NA			NA			NA			NA			143			NA			NA		
Sulfate (9056)	600	250 [5]	17,418.99 [7]	NA			1,990		J	NA			NA			NA			NA			2,440		J	NA			NA		
	µg/L	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate (314)	NV	15 [6]	NV	14			NA			NA			**17**			**15**			NA			NA			NA			13		
Forensic Nitrate Analysis	**TU**	**TU**	**TU**	**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**		
Tritium	NV	NV	NV	NA			NA			< 10.0			NA			NA			NA			NA			< 10.0			NA		
	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$	$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$			$^0/_{00}$		
$\delta\ ^{15}N\ NO_3^-$	NV	NV	NV	NA			NA			5.4			NA			NA			NA			NA			4.7			NA		
$\delta\ ^{18}O\ NO_3^-$	NV	NV	NV	NA			NA			6.8			NA			NA			NA			NA			7.4			NA		

Notes:

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µg/L = micrograms per liter
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$\delta\ ^{15}N\ NO_3^-$ = Delta Nitrogen[15] of Nitrate
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UJ = Estimated non-detect

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MW = Monitoring Well
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Indicates analytical results above the Basewide Background UTL but not above any established NMWQCC Standard or USEPA MCL

Table 7-7
ACM Addendum Groundwater Anaytical Results (January-February 2010)
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Client Sample Identification:	Groundwater Screening Levels		Basewide Background	OT37-MW17			OT37-MW17			OT37-MW18			OT37-MW18			OT37-MW18			OT37-MW19			OT37-MW19			OT37-MW19		
Lab Sample Identification:	NMWQCC[1]	USEPA MCL [2]	Dissolved Metals in Groundwater UTL [3]	F71448-2			280-735-2			F71448-1			12578-180206			280-735-1			F71553-2			F71537-2			280-786-2		
Date Sampled:				2/16/2010			2/16/2010			2/16/2010			2/16/2010			2/16/2010			2/21/2010			2/22/2010			2/21/2010		
Analyte (Method)				Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1	Result [4]	Q	Q1
TAL Metals Analysis (6010B/7470A)	**µg/L**	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Aluminum	5,000	50 [5]	54	130	U		NA			130	U		NA			NA			130	U		NA			NA		
Arsenic	100	10	28.53	54	U		NA			54	U		NA			NA			54	U		NA			NA		
Barium	1,000	2,000	30.13	50	U		NA			50	U		NA			NA			50	U		NA			NA		
Calcium	NV	NV	1,151,301.20	952,000			NA			516,000			NA			NA			524,000			NA			NA		
Chromium	50	100	2.5	10	U		NA			10	U		NA			NA			10	U		NA			NA		
Cobalt	50	NV	2.6	10	U		NA			10	U		NA			NA			10	U		NA			NA		
Copper	1,000	1,300	57.46	25	U		NA			25	U		NA			NA			25	U		NA			NA		
Iron	1,000	300 [5]	65.56	160	U		NA			160	U		NA			NA			160	U		NA			NA		
Lead	50	15	2.6	21	U		NA			21	U		NA			NA			**28.1**	J		NA			NA		
Magnesium	NV	NV	3,630,926.70	707,000			NA			537,000			NA			NA			229,000			NA			NA		
Manganese	200	50 [5]	118.65	32.0	J		NA			48.7	J		NA			NA			33.3	J		NA			NA		
Nickel	200	NV	15.89	20	U		NA			20	U		NA			NA			20.5	J		NA			NA		
Potassium	NV	NV	120,479.98	26,500	J	J	NA			28,300	J	J	NA			NA			16,700	J	J	NA			NA		
Selenium	50	50	25.26	36	U		NA			36	U		NA			NA			36	U		NA			NA		
Silver	50	100 [5]	0.93	10	U		NA			10	U		NA			NA			10	U		NA			NA		
Sodium	NV	NV	19,972,499.00	2,050,000			NA			1,870,000			NA			NA			578,000		J	NA			NA		
Thallium	NV	2	4.9	43	U		NA			43	U		NA			NA			43	U		NA			NA		
Vanadium	NV	NV	73.73	21.5	J		NA			24.5	J		NA			NA			28.5	J		NA			NA		
Zinc	10,000	5,000 [5]	56.28	50	U		NA			50	U		NA			NA			50	U		NA			NA		
General Chemistry	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**	**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**			**µmhos/cm**		
Specific Conductivity (120.1)	NV	NV	NV	NA			NA			NA			NA			NA			NA			NA			NA		
	mg/L	**mg/L**	**mg/L**	**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**			**mg/L**		
Nitrogen, Ammonia (350.1)	NV	NV	21.39 [7]	0.050	U	UJ	NA			0.050	U	UJ	NA			NA			0.050	U		NA			NA		
Alkalinity, Total as $CaCO_3$ (2320B)	NV	NV	386.57 [7]	NA			NA			92.7			NA			NA			NA			NA			NA		
Solids, Total Dissolved (2540C)	1,000	500 [5]	6,956.58 [7]	11,300		J	NA			11,400		J	NA			NA			5,330			NA			NA		
Chloride (9056)	250	250 [5]	35,039.73 [7]	NA			NA			1,690			NA			NA			NA			NA			NA		
Nitrogen, Nitrate (9056)	10	10	216.86 [7]	50.7			NA			26.7			NA			NA			NA			5.6			NA		
Sulfate (9056)	600	250 [5]	17,418.99 [7]	NA			NA			3,420		J	NA			NA			NA			NA			NA		
	µg/L	**µg/L**	**µg/L**	**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**			**µg/L**		
Perchlorate (314)	NV	15 [6]	NV	NA			4.2			NA			NA			3			NA			NA			1.1		
Forensic Nitrate Analysis	**TU**	**TU**	**TU**	**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**			**TU**		
Tritium	NV	NV	NV	NA			NA			NA			< 10.0			NA			NA			NA			NA		
	0/00	**0/00**	**0/00**	**0/00**			**0/00**			**0/00**			**0/00**			**0/00**			**0/00**			**0/00**			**0/00**		
$\delta\ ^{15}N\ NO_3^-$	NV	NV	NV	NA			NA			NA			6.5			NA			NA			NA			NA		
$\delta\ ^{18}O\ NO_3^-$	NV	NV	NV	NA			NA			NA			8.0			NA			NA			NA			NA		

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Table 7-8
Comparison of Nitrate to Chloride and TDS Groundwater Concentrations
OT-37 Release Assessment Report
Holloman AFB, New Mexico

Monitoring Well Identification	Nitrate (mg/L)	Chloride (mg/L)	TDS (mg/L)
OT37-MW06 [1]	37.1 / 36	4,180 / 4,660	17,500 / 14,200
OT37-MW09	12.8	643	5,600
OT37-MW10	62.1	3,130	13,300
OT37-MW11	47.1	9,750	22,600
OT37-MW15	72.8	3,130	10,200
OT37-MW16	143	6,320	15,800
OT37-MW18	26.7	1,690	11,400

Notes:
TDS = Total Dissolved Solids
mg/L = Milligrams per liter
OT-37 = Early Missile Test Site
MW = Monitoring Well
[1] Duplicate Sample Collected

Table 7-9

Typical $\delta^{15}N$ and $\delta^{18}O$ Values[1] in DIssolved Nitrate From Different Nitrate Sources[2]

OT-37 Release Assessment Report

Holloman AFB, New Mexico

Potential Contaminant Source	$\delta^{15}N$ (‰)	$\delta^{18}O$ (‰)
Commercial fertilizer	–4 to +4	+18 to +26
Animal or human waste	> +10	–4 to +12
Precipitation	-3	+18 to +60
Organic nitrogen in soil	+4 to +9	+1 to –4

Notes:

δ = Delta

N = Nitrogen

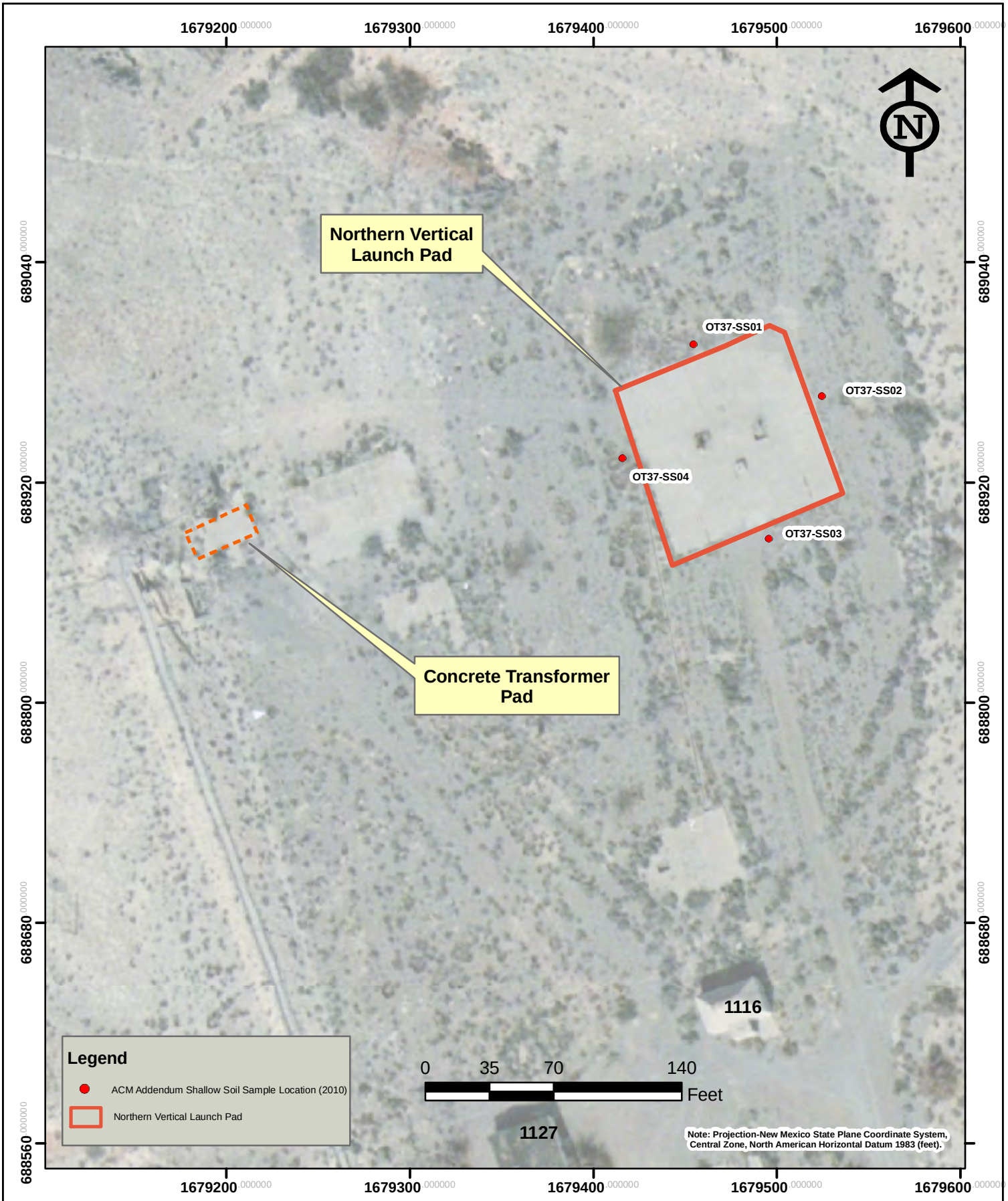
O = Oxygen

$^{0}/_{00}$ = a tenth of a percent (one part in a thousand)

> = Greater than

[1] Where: δ (isotope) = values in per thousand (‰) or per mil and R(sample) = the ratio of the ratio of $^{18}O/^{16}O$ used in international or other standards. For example, the standard for $^{18}O/^{16}O$ is Standard Mean Ocean Water (SMOW). A positive (+) δ value indicates that the heavier isotope (i.e., ^{18}O) in the sample is enriched when compared to the standard. A negative (–) value indicates that the sample has more of the lighter (^{16}O) isotope. The International Atomic Energy Agency (IAEA) and the National Institute of Standards and Technology (NIST) have established and published these standards.

[2] Motzer W.E., *Nitrate Forensics.* Hydrovisions Newsletter (2006)



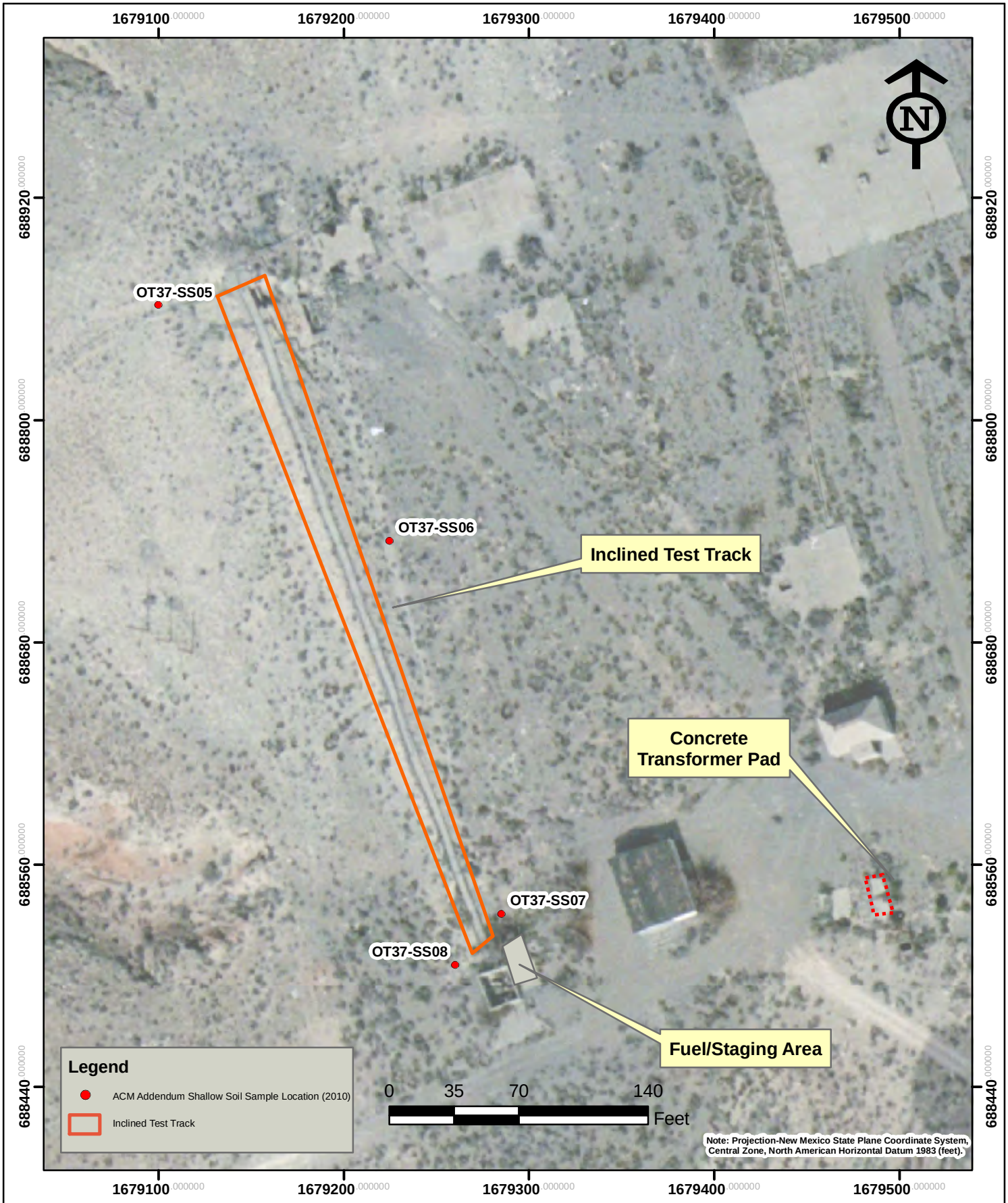
NATIONVIEW

OT-37 Northern Vertical Launch Pad
ACM Addendum Shallow Soil Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090030	1"=70'	9/27/10	DRAWING NO: fig5-5

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 5-5



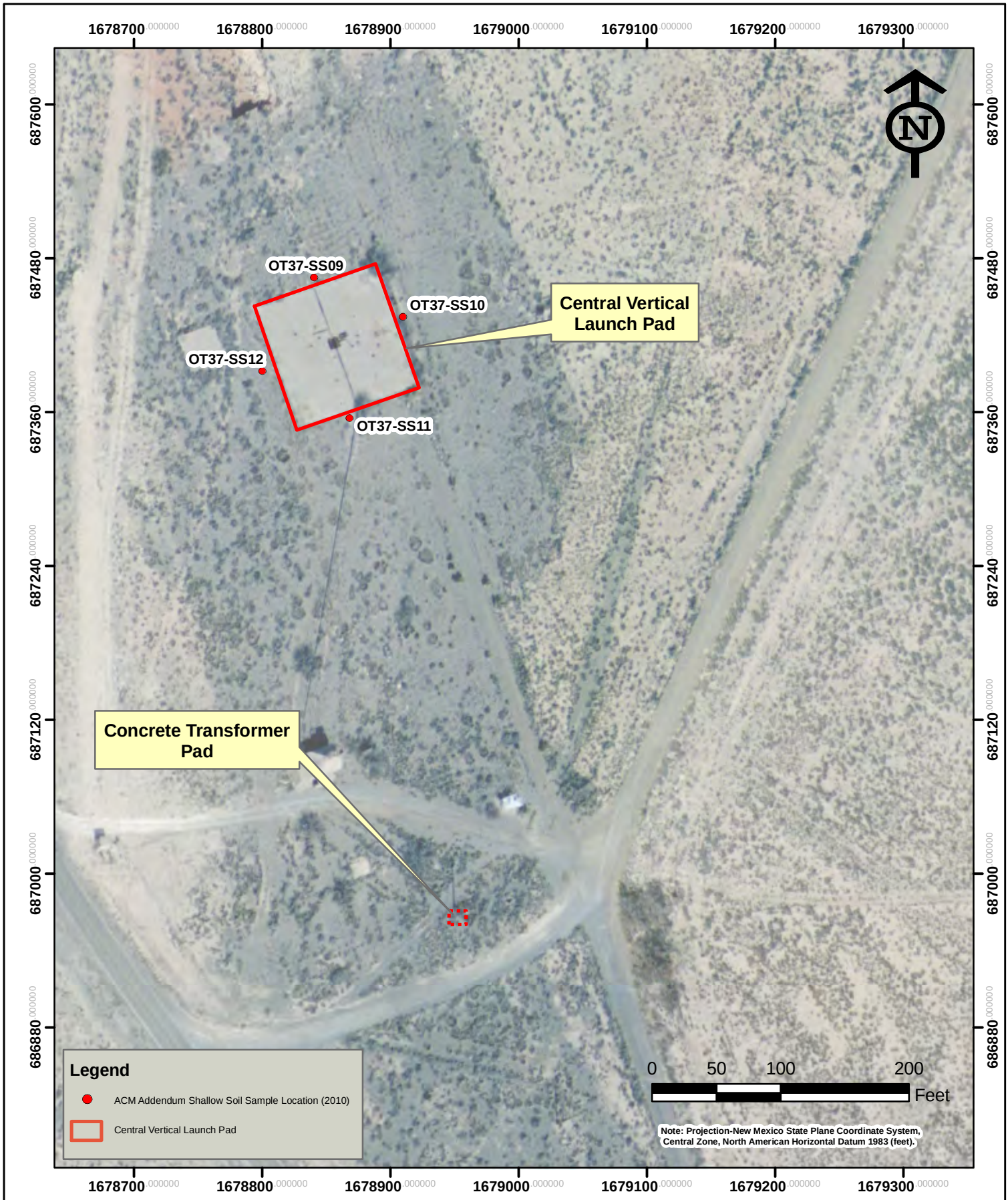
NATIONVIEW

OT-37 Inclined Test Track
ACM Addendum Shallow Soil Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030	1"=70'	9/27/10	cm
			DRAWING NO: fig5-6

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 5-6



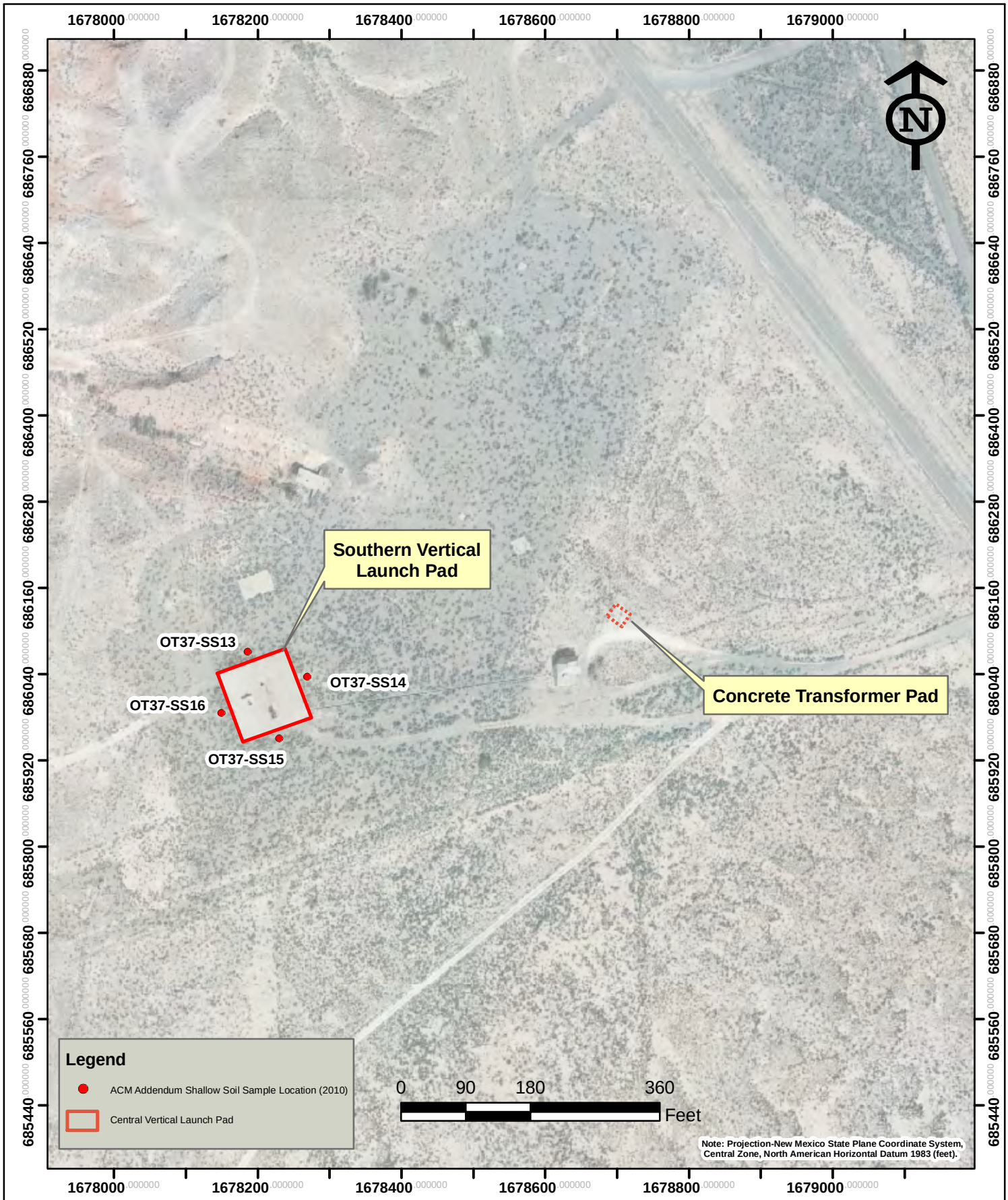
NATIONVIEW

OT-37 Central Vertical Launch Pad
ACM Addendum Shallow Soil Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
8090030	1"=100'	9/27/10	DRAWING NO:	fig5-7

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 5-7



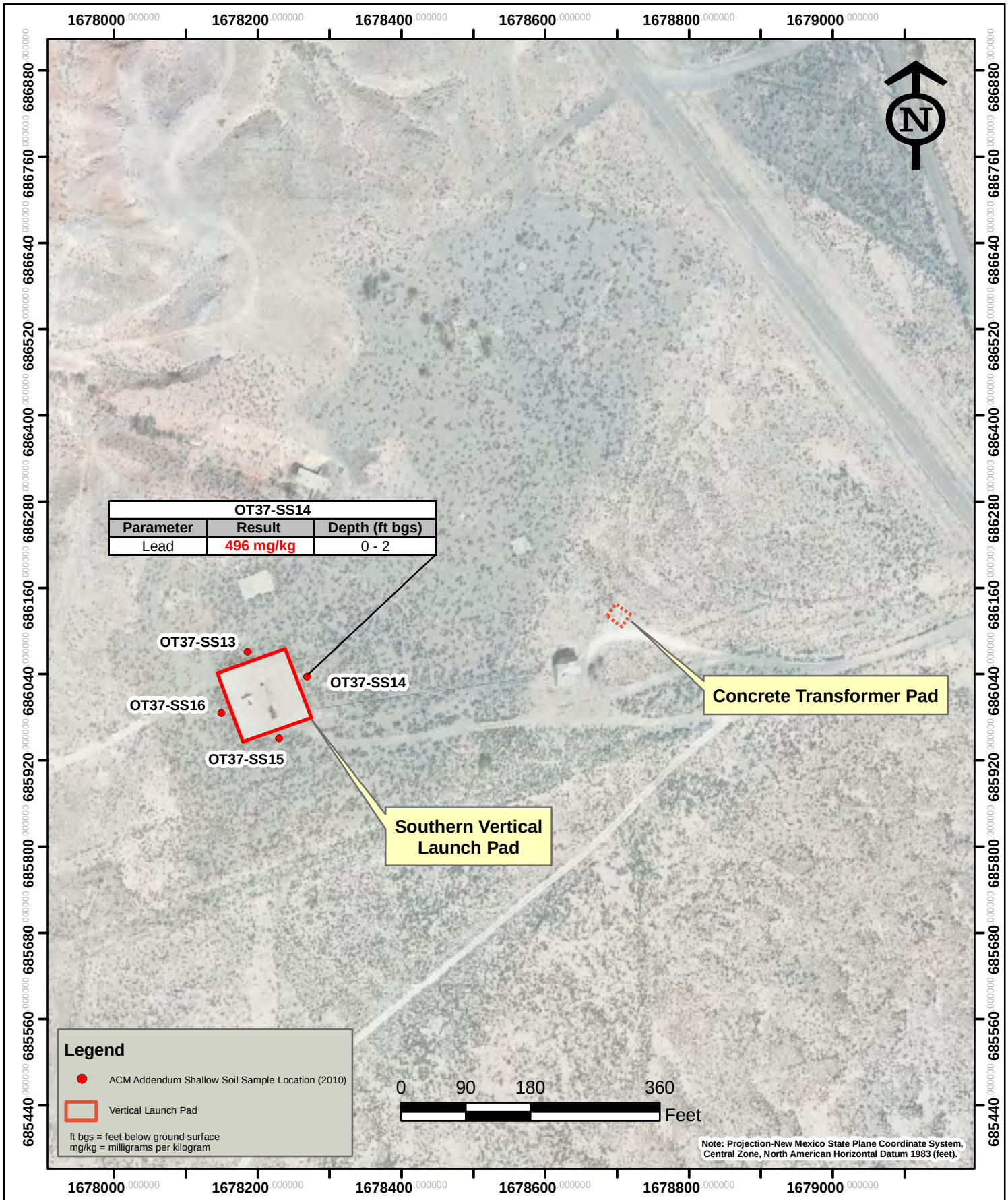
NATIONVIEW

OT-37 Southern Vertical Launch Pad
ACM Addendum Shallow Soil Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
8090030	1"=180'	9/27/10	DRAWING NO:	fig5-8

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 5-8



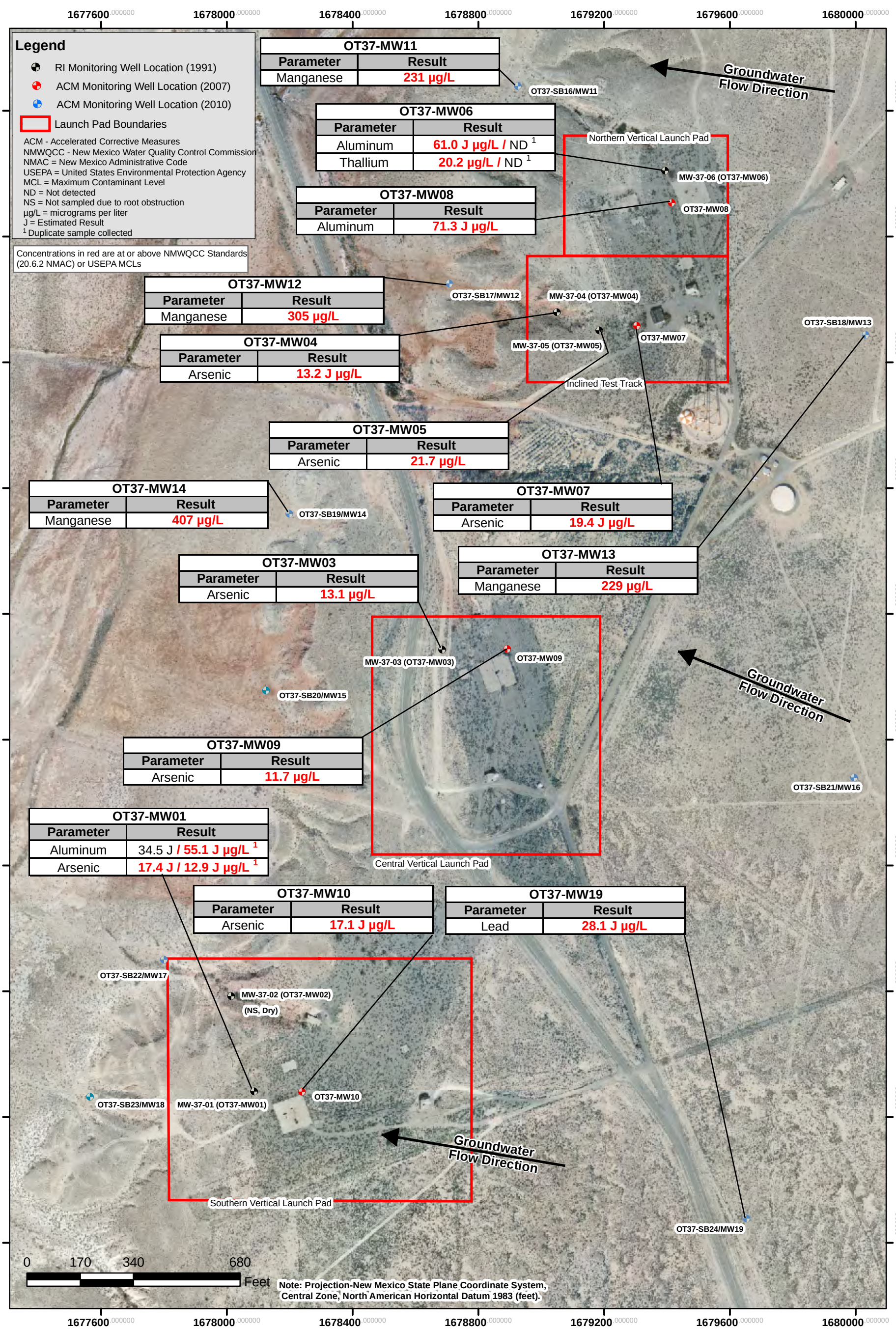
NATIONVIEW

OT-37
ACM Addendum Soil Analytical Results Above NMED Action Levels (February 2010)

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
8090030	1"=180'	10/26/10	DRAWING NO: fig7-3

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 7-3



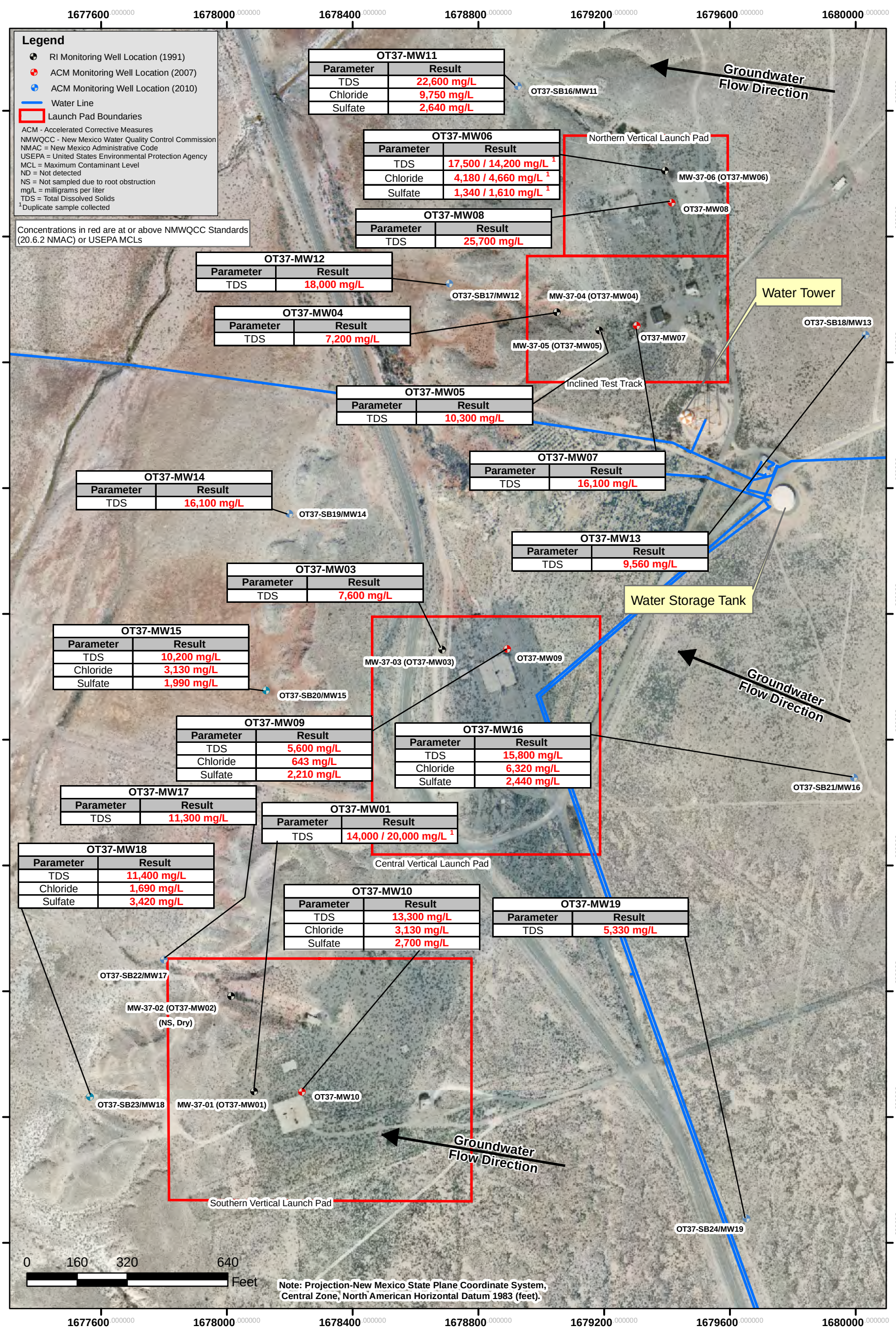
NATIONVIEW

OT-37
ACM Addendum Groundwater Analytical Results
TAL Metals Above Action Levels
(January/February 2010)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030	1"=300'	10/26/10	cm
			DRAWING NO: Figure 7-4

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 7-4



NATIONVIEW

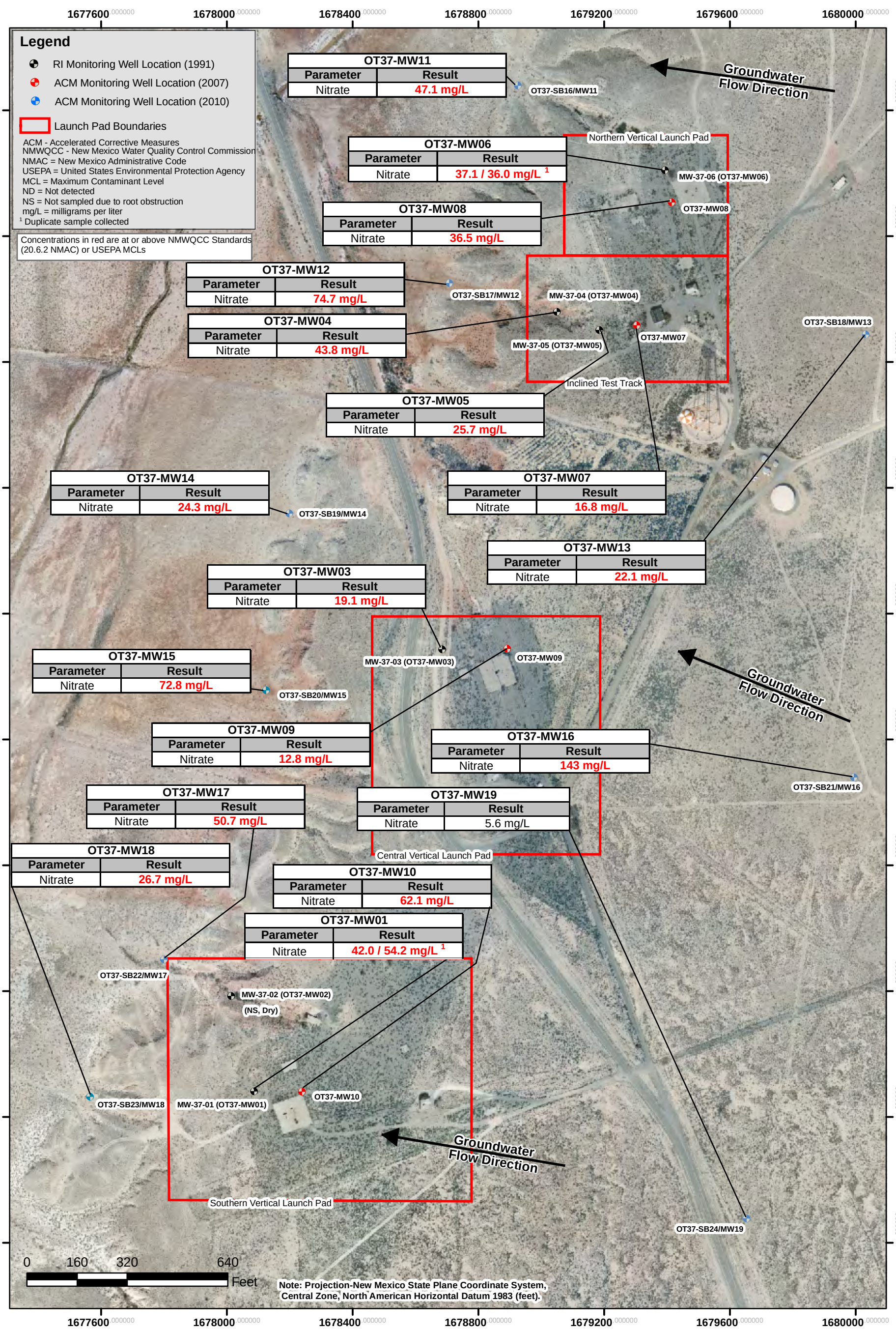
OT-37
ACM Addendum Groundwater Analytical Results
Water Quality Indicators Above Action Levels
(January/February 2010)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030	1"=300'	10/26/10	cm

DRAWING NO: Figure 7-5

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 7-5



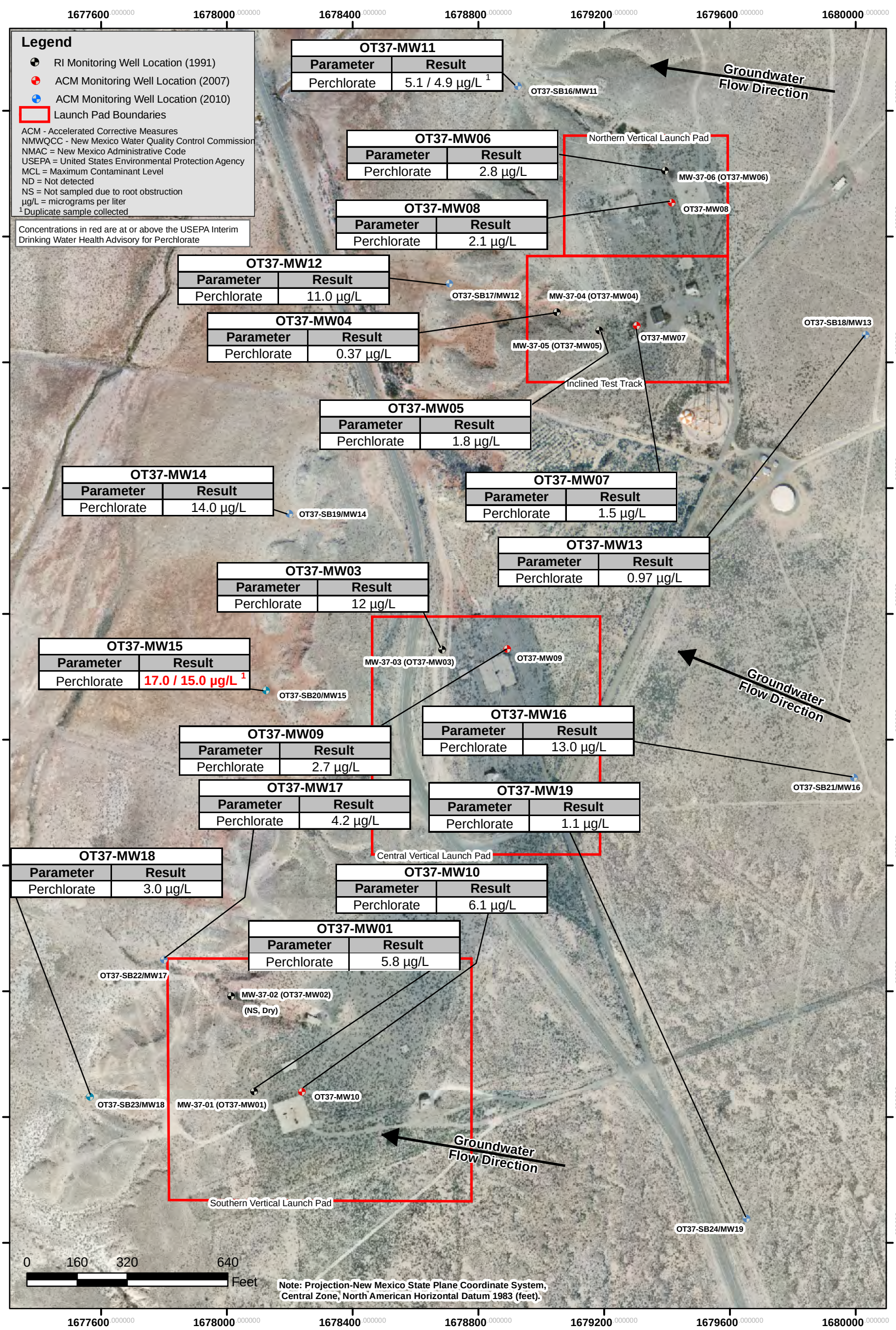
NATIONVIEW

OT-37
ACM Addendum Groundwater Analytical Results
Nitrate (January/February 2010)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030	1"=300'	10/26/10	cm
			DRAWING NO: Figure 7-6

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 7-6



NATIONVIEW

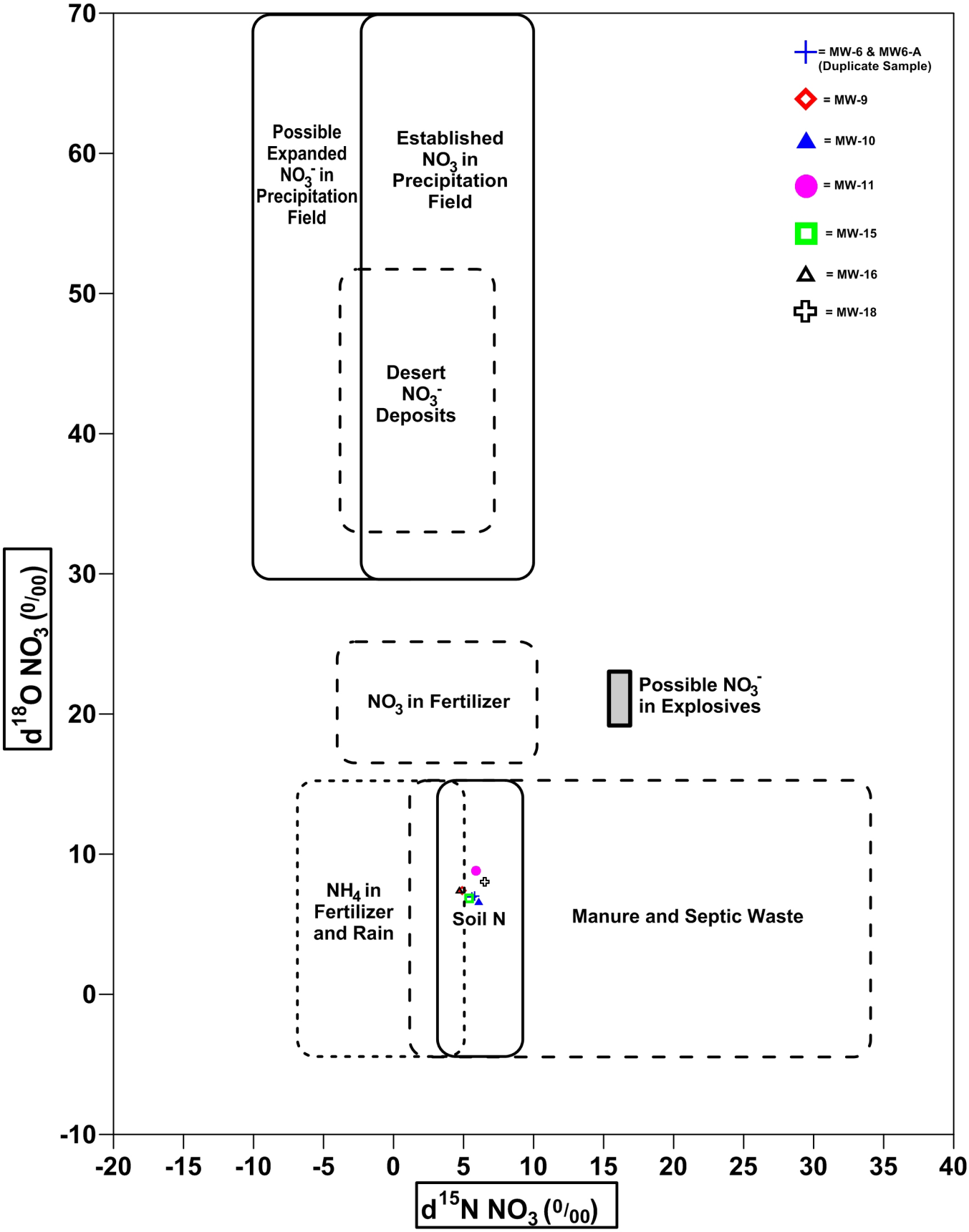
OT-37
ACM Addendum Groundwater Analytical Results
Perchlorate (February 2010)

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030	1"=300'	10/26/10	cm

DRAWING NO: Figure 7-7

OT-37
Release Assessment Report
Holloman AFB, New Mexico

Figure 7-7



Source: Motzer, William E., 2006. Nitrate Forensics. Submitted to Fall 2006 HydroVisions Newsletter.

NATIONVIEW

OT-37 Crossplot of Nitrate Isotopic Values

PROJECT NO.	SCALE	DATE	DRAWN BY:
8090030		9/23/2010	dtm
			DRAWING NO. Fig. 7-8

OT-37 Release Assessment Report
Holloman AFB, New Mexico

Figure 7-8

Appendix A-5-1 (OT-38)

Portions of the:

Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites Holloman Air Force Base, NM

Radian Corporation, June 1992

RADIAN
CORPORATION

DCN 92-269-004-16-07
RCN 269-004-16-06

(Mailing Address)
P.O. Box 201088
Austin, TX 78720-1088
(Shipping Address)
8501 North Mopac Blvd.
Austin, TX 78759
(512) 454-4797

REMEDIAL INVESTIGATION (RI) REPORT

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NM

Volume I

DRAFT FINAL

Prepared for:

49 SG/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 North MoPac Blvd.
P.O. Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-89-D-0515 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1992

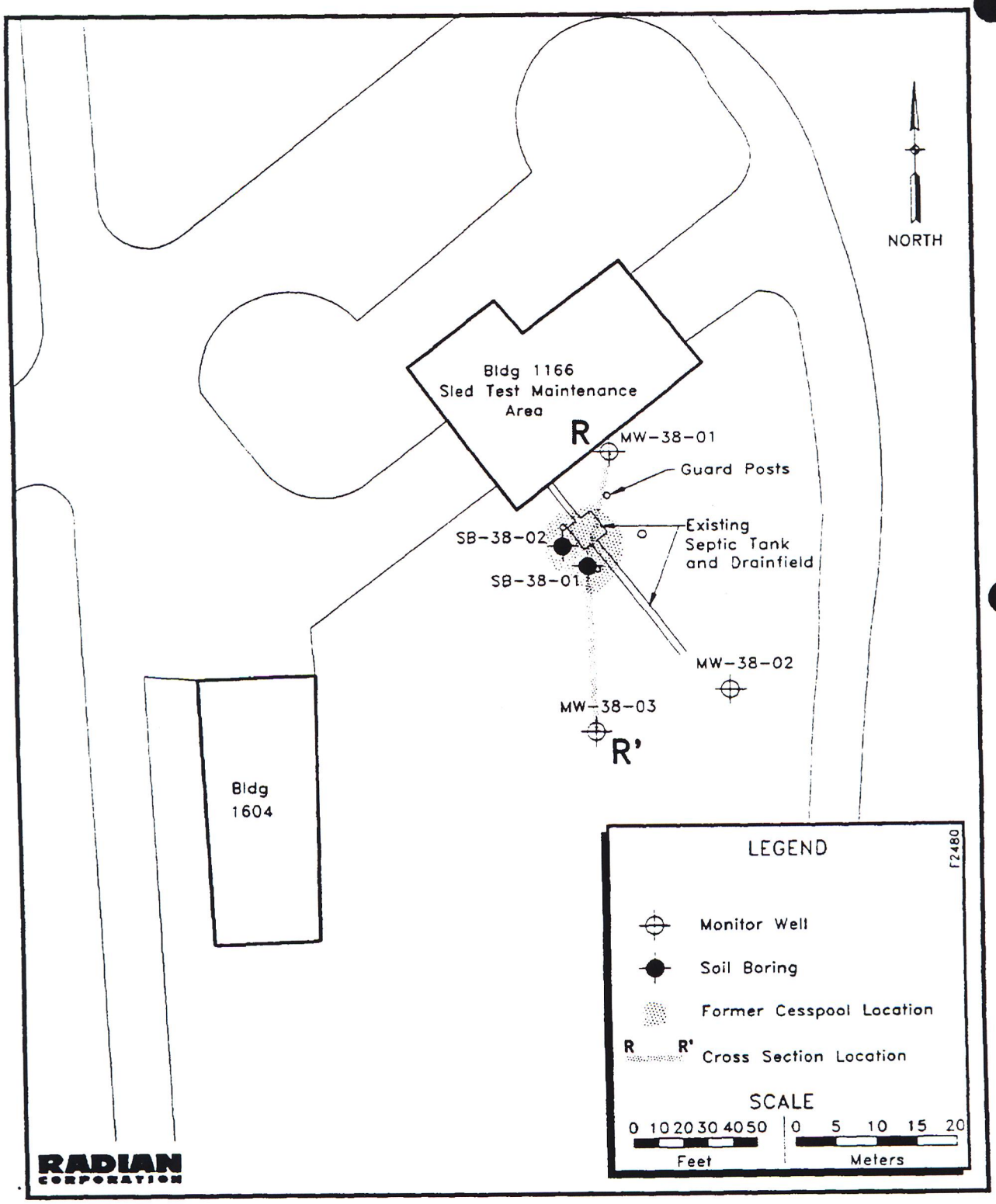


Figure 4-61. Soil Boring, Monitor Well, and Cross Section Locations for Site 38

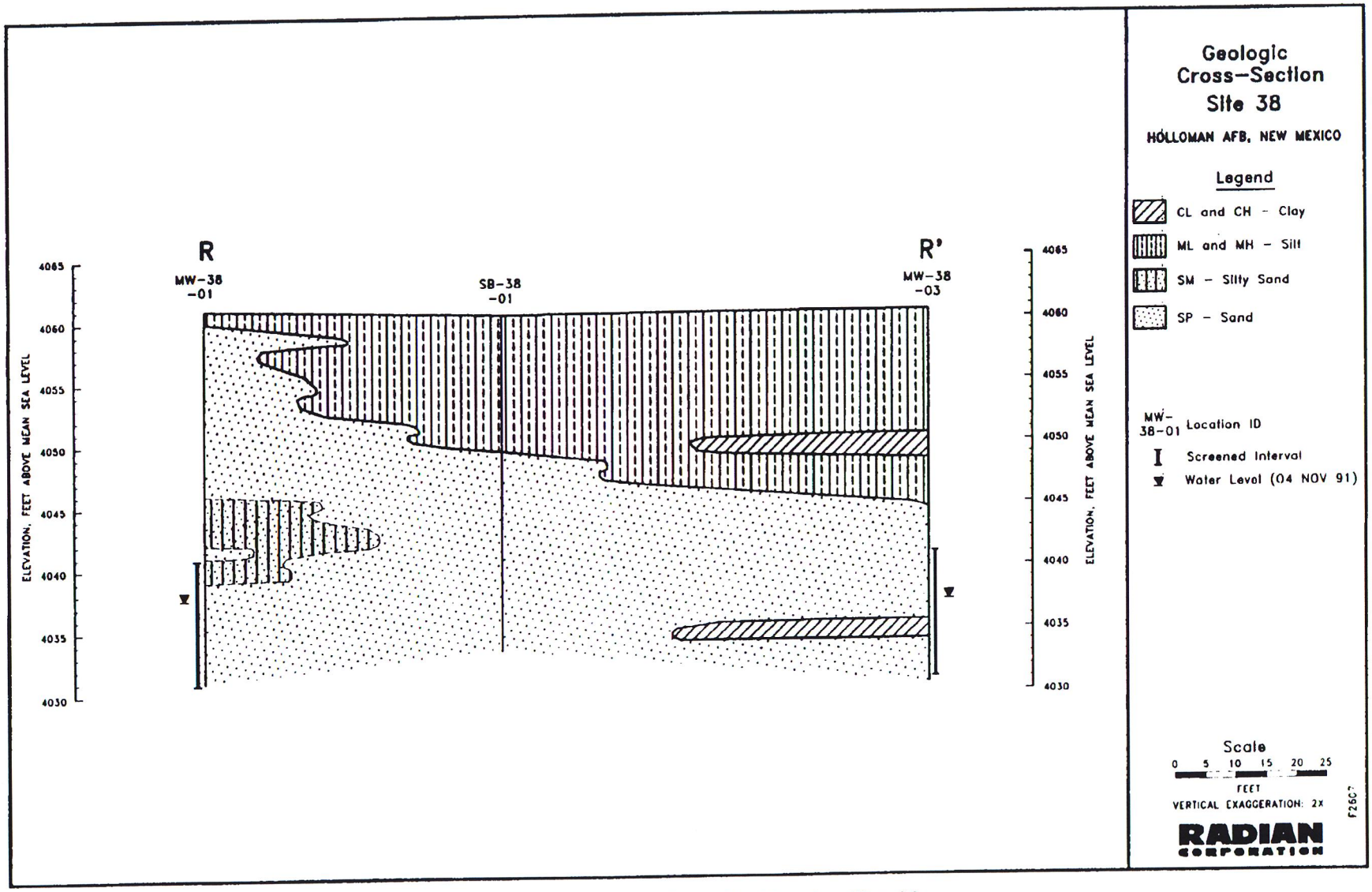


Figure 4-62. Geologic Cross Section for Site 38

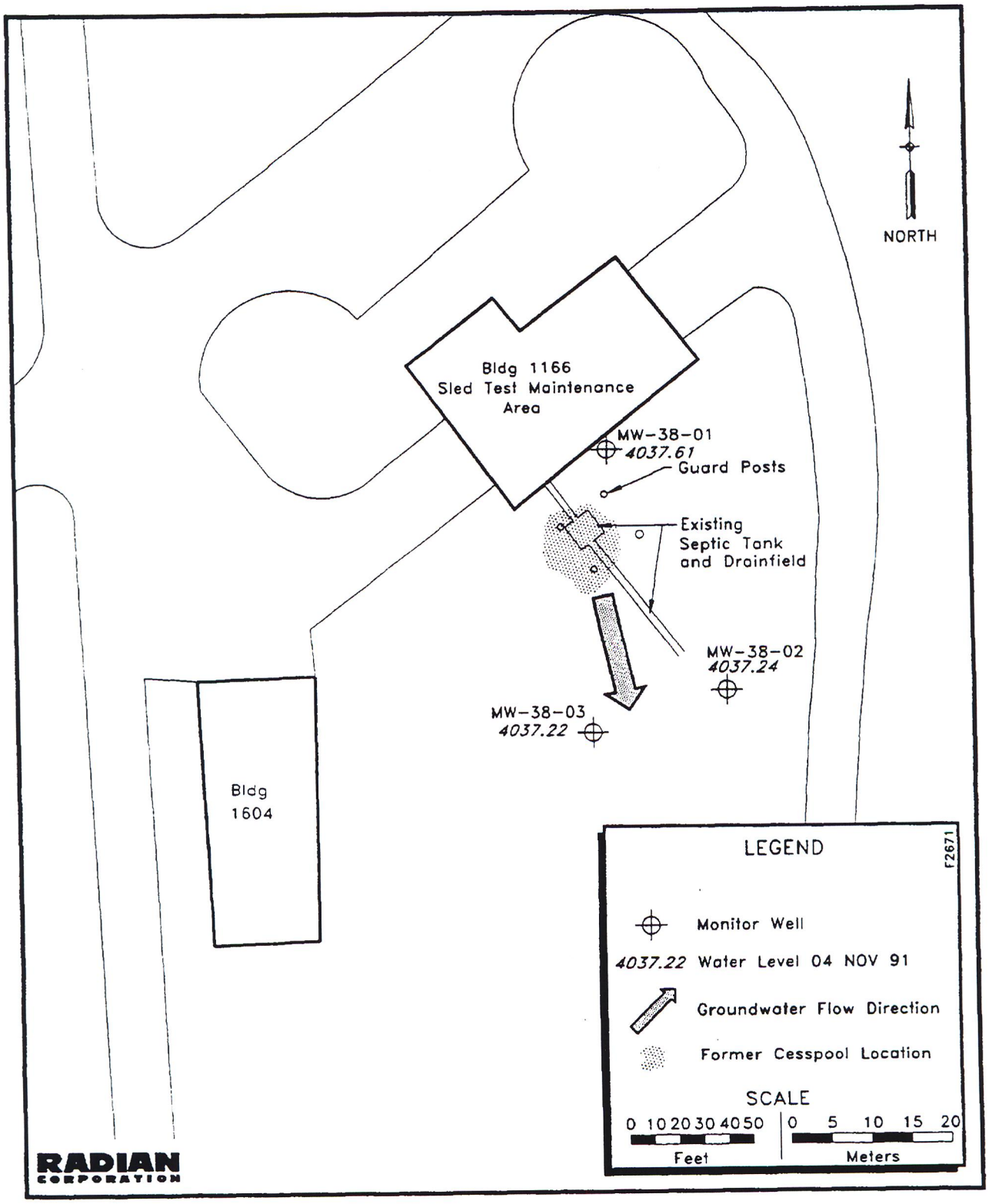


Figure 4-63. Monitor Well Locations and Groundwater Flow Direction for Site 38

Table 4-83

Concentrations of Inorganic and Organic Analytes in Site 38 Soil Samples

Location	[illegible]				[illegible]			
Sample ID	[illegible]		[illegible]		[illegible]		[illegible]	
Analyte	Result	(D.L.)	Result	(D.L.)	Result	(D.L.)	Result	(D.L.)
Inorganic results								
SW6010 - Metals (mg/kg)								
Chromium	6.7 @	(1.9)	4.1 @	(3.4)	5.7 @	(3.4)	5.6 @	(3.7)
Nickel	5.5 @	(3.8)	ND	(6.8)	ND	(6.9)	ND	(7.5)
Zinc	19	(3.8)	7.6 @	(6.8)	14 @	(6.9)	11 @	(7.5)
SW7060 - Arsenic (mg/kg)	1.6 @	(0.37)	0.56 @	(0.36)	1.1 @	(0.37)	0.73 @	(0.36)
SW7421 - Lead (mg/kg)	2.5	(0.28)	0.70 @	(0.27)	20	(1.1)	1.1 @	(0.27)
Organic results								
EPA 418.1 - TRPH (mg/kg)	24.4 @	(12.6)	29.1 @	(12.1)	1540	(250)	18.4 @	(12.6)
SW8240 - Volatile Organics (ug/kg)								
Methylene chloride	37 JB	(130)	78 JB	(120)	52 JB	(130)	240 B@	(130)
Toluene	7.7 J	(130)	7.2 J	(120)	6.2 J	(130)	8.9 J	(130)

NOTE: Table presents only constituents detected in soil at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.
J = Detected below the detection limit.

Table 4-84

Concentrations of Inorganic Analytes in Site 38 Groundwater Samples

Location: Sample ID:	MW-38-01 38-01-01		MW-38-02 38-02-01		MW-38-03 38-03-01	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	15000	(10)	15000	(10)	5500	(10)
EPA 300.0 - Chloride (mg/L)	3700	(26)	3800	(26)	900	(2.6)
EPA 300.0 - Sulfate (mg/L)	4900	(5.0)	3900	(5.0)	1900	(5.0)
EPA 340.2 - Fluoride (mg/L)	1.5	(0.10)	1.4	(0.10)	2.1	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	110	(4.4)	130	(4.4)	110	(4.4)
EPA 365.2 - Total Phosphorus (mg/L)	0.33	(0.020)	0.084 @	(0.020)	0.19	(0.020)
SW6010 - Metals (mg/L)						
Antimony	ND	(0.20)	0.14 @	(0.10)	ND	(0.10)
Copper	0.047 @	(0.040)	ND	(0.020)	0.059 @	(0.020)
Nickel	0.047 @	(0.040)	ND	(0.020)	ND	(0.020)
Zinc	0.047 @	(0.040)	ND	(0.020)	0.027 @	(0.020)
SW7421 - Lead (mg/L)	0.0078 @	(0.0060)	ND	(0.0060)	0.013 @	(0.0060)

NOTE: Table presents only constituents detected in groundwater at this site.
@ = Measured result is less than five times the detection limit.
ND = Not Detected, at the reported detection limit.

Table 4-85

Concentrations of Organic Analytes in Site 38 Groundwater Samples

Location: Sample ID:	MW-38-01 38-01-01		MW-38-02 38-02-01		MW-38-03 38-03-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)
SW8240 - Volatile Organics (µg/L)						
Chloroform	1.3 J	(5.0)	2.0 J	(5.0)	ND	(5.0)
Methylene chloride	30	(5.0)	49	(5.0)	18 @	(5.0)
Trichloroethene	3.1 J	(5.0)	2.8 J	(5.0)	ND	(5.0)

NOTE: Table presents only constituents detected in groundwater at this site.
J = Detected below the detection limit.
ND = Not Detected, at the reported detection limit.
@ = Measured result is less than five times the detection limit.

Table 4-86

Groundwater Analytes Detected Above Risk-Based Action Levels at Site 38

Analyte	Location ID	Result	Action Level
Groundwater Results (mg/L)			
Antimony	MW-38-02	0.14 @	0.01
Fluoride	MW-38-03	2.1	2
Methylene chloride[a]	MW-38-01	0.03	0.005
Methylene chloride[a]	MW-38-02	0.049	0.005
Methylene chloride[a]	MW-38-03	0.018 @	0.005
Trichloroethene	MW-38-01	0.0031 J	0.003

Note: Result units were changed to match action level units for this table.

@ = Measured result is less than five times the detection limit.
[a] Methylene chloride was determined to be a laboratory contaminant in a QA/QC review and is, therefore, not considered to be above the action level in samples from the site.
J = Detected below the detection limit.

DRILLING LOG

F2413

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
HOLE NO.	SB-38-01
SHEET	1 OF 2 SHEETS
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	38
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	686043.76(Y), 532166.32(X)
9. SURFACE ELEVATION	4060.48
10. DATE STARTED	24 SEP 91
11. DATE COMPLETED	24 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	22.0 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	27 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	DISTURBED / UNDISTURBED
19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC / METALS / OTHER (SPECIFY) / OTHER (SPECIFY) / OTHER (SPECIFY)
21. TOTAL CORE RECOVERY	%
22. DEPOSITION OF HOLE	BACKFILLED / MONITORING WELL / OTHER (SPECIFY): GROUT
23. SIGNATURE OF INSPECTOR	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1	SILT: greyish-orange (5YR 7/4), low plasticity, dry, 0-.3 ft gravel fill. (ML)	HS=0.3ppm		91JULH038-001	5,6,8,9	1.0/2.0 ft composite 0-10 ft on 2.5' intervals
	2						
	3	SILT: light brown (5YR 5/6), dry, low plasticity, trace fine sand. (ML)	HS=0.6ppm			6,9,6,5	1.9/2.0 ft
	4						
	5	SILT, as above: moist, no sand. (ML)	HS=1.3ppm			3,14,8,7	1.7/2.0 ft VOAs from interval 5-7 ft
	6	SILT: very pale orange (10YR 8/2), dry, low plasticity, caliche. (ML)					
	7	CLAYEY SILT: light brown (5YR 5/6), moist, medium plasticity, gypsum. (ML)					
	8	CLAYEY SILT, as above.	HS=0.3ppm			8,12,10,9	
	9						

DRILLING LOG

HOLE NO. SB-38-01

F2413

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		CLAYEY SILT, as above	HS=0.0ppm		91JULH038 -002	4,10,30,40	2.0/2.0 ft Composite of 10 20 ft on 5.0 ft intervals
	11	SAND: very pale orange (10YR 8/2), very fine grained, clorly graded, dry. (SP)					
	12						
	13						
	14						
	15	SAND, as above.	HS=0.0ppm			43,50	0.5/2.0 ft not enough recovery for work
	16						
	17						
	18						
	19						
	20	SAND, as above: have rust color staining.	HS=0.0ppm			35,50	VOA from 20-22 ft interval
	21						
	22						water at 22.0 ft bgl
	23						
	24						
	25	SAND: greyish-orange (10YR 7/4), fine to very fine, poorly graded, wet. (SP)				35,50	1.8/2.0 ft
	26						
	27						TD= 27.0 ft

DRILLING LOG

HOLE NO. SB-38-02

F2414

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 2 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	38
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	686052.24(Y), 532156.26(X)
9. SURFACE ELEVATION	4060.73
10. DATE STARTED	24 SEP 91
11. DATE COMPLETED	24 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	22.5 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	25 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
			GROUT	HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILT: greyish-orange (10YR 7/4), dry, low plasticity (gravel fill from 0-0.3'), stain on surface above boring. (ML)	HS=25.5ppm SC=5.4ppm		91JULH038 -003	6,6,10,9	1.2/2.0 ft chemical odor
	1						
	2						
	3	SILT: moderate yellowish-brown (10YR 5/4), low plasticity, dry, gypsum layers. (ML)	HS=81.3ppm			4,4,3,4	1.8/2.0 ft VOA sample interval 2.5-4.5 ft
	4						
	5	SILT: very pale orange (!0YR 8/2), low plasticity, dry. (ML)	HS=5.7ppm			11,10,7,8	1.7/2.0 ft
	6	SILT: light brown (5YR 5/6), low plasticity, dry, gypsum mottling, some clay. (ML)					
	7						
		SILT, as above: clay content increases with depth. (ML)	HS=2.7ppm			4,7,7,9	
	8						
	9	CLAYEY SILT, as above: medium plasticity. (ML)					

DRILLING LOG

HOLE NO. SB-38-02

F2414

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 2 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILTY CLAY: moderate brown (5YR 4/4), moderate plasticity, moist, gypsum mottling. (CL)	HS=0.3ppm		91JULH038-004	24,6,24,50	1.8/2.0 ft composite 10-20' on 5 ft intervals
	11	SAND: very pale orange (1)YR 8/2), very fine grained, poorly graded, dry. (SP)					
	12						
	13						
	14						
	15	SAND, as above: pale yellowish-orange (10YR 8/6).	HS=0.3ppm			29,50	0.5/2.0 ft VOA sample interval 15-17 ft
	16						
	17						
	18						
	19						
	20	SAND, as above.	HS=0.0ppm			50	0.4/2.0 ft no VOA collected because of little recovery
	21						
	22						▽ water at 22.5 ft bgl
	23						
	24						
	25	SAND: light brown (5YR 6/4), fine to very fine grained, poorly graded, wet. (SP)				37,50	
	26						
	27						TD= 27.0 ft

DRILLING LOG

HOLE NO. MW-38-01

F2395

1. COMPANY NAME RADIAN CORPORATION	2. DRILLING SUBCONTRACTOR SOUTHWEST ENG INC
SHEET 1 OF 3 SHEETS	
3. PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES	4. LOCATION 38
5. NAME OF DRILLER ART VALTIERRA	6. MANUFACTURER'S DESIGNATION OF DRILL HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: BOREHOLE DIA.: 7.5"	8. HOLE LOCATION 686092.55(Y), 532175.89(X)
	9. SURFACE ELEVATION 4061.03
	10. DATE STARTED 24 SEP 91 / 11. DATE COMPLETED 24 SEP 91
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED 22 ft bgl
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 04 NOV 91 25.24 ft bmp
14. TOTAL DEPTH OF HOLE 30 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SANDY SILT: brown (10YR 5/4), organic with gravels, fill (?). (ML)					3.0/5.0 ft
	1	SAND: tan-brown (10YR 7/4) very fine, moist, crumbly, clean, poorly graded, homogeneous. (SP)					
	2						
		changes to brown (5YR 6/4) with white mottles.					
	3						
	4						
	5	tan zone (~1'), minor caliche.					3.0/5.0 ft
	6	changes to brown (5YR 6/4), minor caliche.					
	7						
		changes to SAND: fine to medium, clean					
	8						
	9						

DRILLING LOG

HOLE NO. MW-38-01

F2395

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11						3.0/5.0 ft
	12	small (1"), brown (5YR 4/4), hard silt/ very fine sand zone.					
	13	some tan zones, more of a tan-pink (5YR 8/4) color.					
	14						
	15	SAND: brown (5YR 6/4), very fine, caliche zones interbedded with SILT: brown (5YR 5/6), gypsum crystals present, no loose sand, all caliche, very hard. (SM)					4.5/5.0 ft
	16						
	17						
	18						
	19	SAND: yellow-green (5YR 7/6), to grey-yellow (5Y 8/4) laminae, fine to very fine, black streaks, moist, loose, crumbly. (SP)					
	20	SAND and SILT: interbedded, tan to brown to red brown, predominantly sand, some caliche, sand is very fine to medium, some orange to yellow staining at 20 -21 ft. (SM)					3.5/5.0 ft
	21						
	22	SAND: brown (5YR 6/4), fine to medium, clean, wet, subrounded. (SP)					
	23						-water at 22.74 ft
	24						
	25						
	26						
	27			MW-038-01-27.5-30.0			

DRILLING LOG

HOLE NO. MW-38-01

F2385

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 3 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30						TD=30.0 ft
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-38-01

DRILLING LOG

HOLE NO. MW-38-02

F2396

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	38
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	685992.12(Y), 532222.78(X)
9. SURFACE ELEVATION	4061.19
10. DATE STARTED	24 SEP 91
11. DATE COMPLETED	24 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	23 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 26.32 ft bmp
14. TOTAL DEPTH OF HOLE	30 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
		X	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
						%

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		ACD

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
		SILTY SAND: yellow-orange (10YR 6/5), very fine, some ribbons, firm, moist, crumbly, soft. (SM)					3.5/5.0 ft may be a sandy silt (borderline)
	1						
	2						
		changes to light brown (5YR 6/4), with white mottles					
	3						
	4						
	5						4.0/5.0 ft
		some gypsum crystals; grades to					
	6						
	7	grades to CLAYEY SILT: brown (5YR 5/6), gypsum cystals, high plasticity, stiff. (MH)					
	8	SANDY, CLAYEY SILT: brown (5YR 4/4), medium plasticity, crumbly, moist, soft. (ML)					
	9						

DRILLING LOG

HOLE NO. MW-38-02

F2396

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 2 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11	CLAYEY SILT, and clay: gypsum crystals, brown and grey/olive. (MH)					
		SAND: tan (10YR 8/2), clean, moist, fine to medium grained. (SP)					
	12						
	13						
	14						
	15	SAND: tan (10YR 8/2) to brown (5YR 6/4), very fine to medium zones, caliche dominant, some brown zones, some silty zones, mainly a clean, poorly graded sand caliche. (SP)					
	16						
	17						
	18						
	19						
	20	SANDY SILT: brown (5YR 5/6), low plasticity. (ML)					
	21	SAND: tan/olive (10YR 8/2), caliche, fine, clean. (SP)					
	22	SAND: brown (5YR 4/6 and tan (10YR 8/2), interbedded, medium grained, moist, clean. (SP)					
	23	SAND: olive (5Y 6/4), clean, fine to very fine, wet, poorly graded. (SP)					looks "stressed"
	24						▽ -water at 23.82 ft
	25	SAND: very fine, tan and brown, saturated. (SP)					
	26						
	27			MW-038-02-27.5-30.0			

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-38-02

DRILLING LOG

HOLE NO. MW-38-02

F2396

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR ACD

SHEET 3 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30						TD= 30.0 ft
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-38-02

DRILLING LOG

HOLE NO. MW-38-03

F2415

1. COMPANY NAME	RADIAN CORPORATION
2. DRILLING SUBCONTRACTOR	SOUTHWEST ENG INC
SHEET 1 OF 3 SHEETS	
3. PROJECT	HOLLOMAN AFB RI/FS FOR 29 SITES
4. LOCATION	38
5. NAME OF DRILLER	ART VALTIERRA
6. MANUFACTURER'S DESIGNATION OF DRILL	HOLLOW-STEM AUGER
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	BOREHOLE DIA.: 7.5"
8. HOLE LOCATION	685974.75(Y), 532168.57(X)
9. SURFACE ELEVATION	4060.72
10. DATE STARTED	24 SEP 91
11. DATE COMPLETED	24 SEP 91
12. OVERBURDEN THICKNESS	
15. DEPTH GROUNDWATER ENCOUNTERED	23.08 ft bgl
13. DEPTH DRILLED INTO ROCK	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	04 NOV 91 25.88 ft bmp
14. TOTAL DEPTH OF HOLE	30 ft.
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DEPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		HTH

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	1						
	2						
	3						
	4						
	5	CLAYEY SILT: pale yellowish-orange (10YR 8/6), medium plasticity, dry, some caliche. (ML)				9,10,9,7	1.6/2.0 ft
	6						
	7						
	8						
	9						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES HOLE NO. MW-38-03

DRILLING LOG

HOLE NO. MW-38-03

F2415

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 2 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	11	CLAY: light brown (5YR 5/6), medium plasticity, dry, hard, gypsum mottling, increasing silt content at 11-12 ft. (CL)				4,8,11,14	2.0/2.0 ft
	12 13 14	SILT: light brown (5YR 5/6), low plasticity, dry, 11.5-12.0 ft no clay all silt. (ML)					
	15 16 17 18 19	SAND: yellowish-grey (5Y 7/2), very fine grained, almost silty, poorly graded, dry, some caliche. (SP)				24,41,42, 50	1.8/2.0 ft
	20 21 22 23 24	SAND: as above, fine to very fine grained, dry. (SP)				50	0.5/2.0 ft water at 23.08 ft bgl
	25	SANDY CLAY : yellowish-grey (5Y 7/2), medium plasticity, wet, hard. (CL)				4,22,36,50	
	26 27	SAND: yellowish grey (5Y 7/2), medium to very fine grained, moderately sorted, wet, trace clay near 25.5 ft, some silt below 25.5 ft. (SP)					

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-38-03

DRILLING LOG

HOLE NO. MW-38-03

F2415

PROJECT HOLLOMAN AFB RI/FS

INSPECTOR HTH

SHEET 3 OF 3 SHEETS

a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS/RECOVERY h
	29						
	30						TD= 30.0 ft
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38						
	39						
	40						
	41						
	42						
	43						
	44						
	45						

PROJECT HOLLOMAN AFB RI/FS FOR 29 SITES

HOLE NO. MW-38-03

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 24 SEPT 91	STARTED	COMPLETED	LOCATION (Coordinates or Station) 38
ELEVATION TOP OF CASING 4062.85			SIGNATURE OF INSPECTOR/INSTALLER ACD
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-38-01

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

STICK-UP: 2.5 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

22 ft. LENGTH OF SOLID PIPE

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL 14.0 ft. bgl

TYPE OF SEAL: Bentonite Pellets

TOP OF FILTERPACK 17.0 ft. bgl

TOP OF SCREEN 19.5 ft. bgl

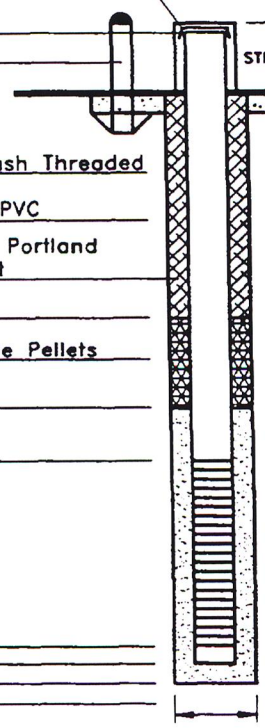
9.5 ft. WELL SCREEN LENGTH

FILTER PACK

BOTTOM OF WELL 29.5 ft. bgl

BOTTOM OF BORING 30.0 ft. bgl

BORING DIAMETER 7.5 in.



SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 4 NOV 91/1525/25.24 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738G

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 24 SEPT 91	STARTED	COMPLETED	LOCATION (Coordinates or Station) 38
ELEVATION TOP OF CASING 4063.56			SIGNATURE OF INSPECTOR/INSTALLER ACD
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-38-02

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)

PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

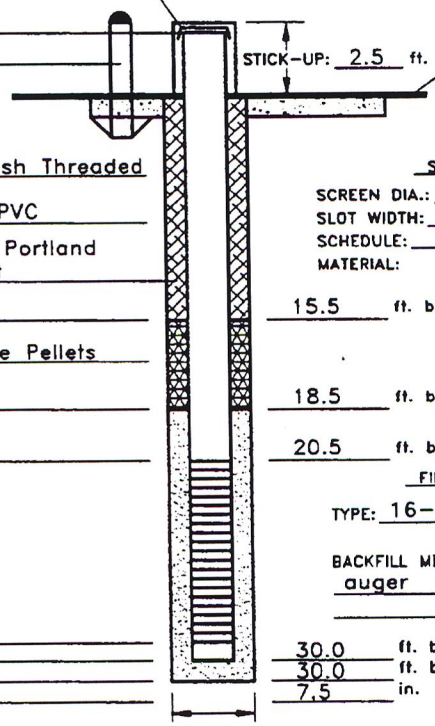
BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

23.0 ft. LENGTH OF SOLID PIPE

9.5 ft. WELL SCREEN LENGTH



STICK-UP: 2.5 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

15.5 ft. bgl

18.5 ft. bgl

20.5 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Tremie through auger

30.0 ft. bgl

30.0 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 4 NOV 91/1527/26.32 ft. bmp

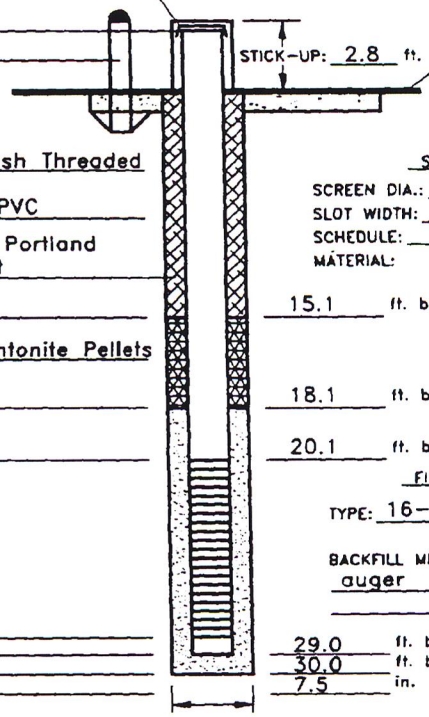
DEPTH FROM TOP CASING AFTER DEVELOPMENT:

D1738H

ELEVATION GROUND WATER			PROJECT HOLLOMAN AFB RI/FS
DATE INSTALLED 24 SEPT 91	STARTED 1500	COMPLETED 1700	LOCATION (Coordinates or Station) 38
ELEVATION TOP OF CASING 4063.10			SIGNATURE OF INSPECTOR/INSTALLER HTH
DRILLING METHOD HOLLOW STEM AUGER			WELL NO. (as shown on drawing: title and file number) MW-38-03

MONITORING WELL CONSTRUCTION DIAGRAM

(ALL MEASUREMENTS FROM GROUND SURFACE)



PROTECTIVE CASING

TYPE OF PROTECTIVE CASING: Steel Lockbox

TOP OF WELL

PROTECTIVE POSTS

CASING DIAMETER: 2 in.

TYPE OF PIPE JOINTS: Flush Threaded

TYPE OF BLANK CASING: PVC

BACKFILL/GROUT MIX ETC. Type I Portland Cement

TOP OF SEAL

TYPE OF SEAL: 1/4" Bentonite Pellets

TOP OF FILTERPACK

TOP OF SCREEN

FILTER PACK

BOTTOM OF WELL

BOTTOM OF BORING

BORING DIAMETER

LENGTH OF SOLID PIPE: 21.9 ft.

WELL SCREEN LENGTH: 9.5 ft.

STICK-UP: 2.8 ft.

GROUND SURFACE

CONCRETE PAD MIN. 4.0" THICKNESS

SCREEN INFORMATION

SCREEN DIA.: 2 in.

SLOT WIDTH: 0.010 in.

SCHEDULE: 40

MATERIAL: ☒ PVC ☐ STAINLESS STEEL ☐ OTHER (DESCRIBE)

15.1 ft. bgl

18.1 ft. bgl

20.1 ft. bgl

FILTERPACK MATERIAL

TYPE: 16-40 Colorado Silica Sand

BACKFILL METHOD: Pour through auger

29.0 ft. bgl

30.0 ft. bgl

7.5 in.

WELL DEVELOPMENT

METHOD: See Well Development Record

TIME SPENT DEVELOPING:

VOLUME OF WATER REMOVED:

VOLUME OF WATER ADDED:

DESCRIPTION OF PREDEVELOPMENT WATER:

DESCRIPTION OF POST DEVELOPMENT WATER:

WATER LEVEL SUMMARY

WATER LEVEL MEASUREMENTS

DATE/TIME/LEVEL 20 OCT 91/0930/25.87 ft. bmp

4 NOV 91/1530/25.88 ft. bmp

DEPTH FROM TOP CASING AFTER DEVELOPMENT:

01738N

Appendix A-5-2 (OT-38)

Data Tables and Figures from the:

OT-38 Accelerated Corrective Measures Investigation
Holloman Air Force Base, NM

Conducted by Bhate Environmental Associates, Inc., June 2007

Table 4-11
Soil Analytical Data (June 2007)
Test Sled Maintenance Area, OT-38
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT38-DP01-5**	**OT38-DP01-10**	**OT38-DP01-23**	**OT38-DP02-5**	**OT38-DP02-10**	**OT38-DP02-10A**	**OT38-DP02-23**	**OT38-DP03-5**	**OT38-DP03-10**	**OT38-DP03-10**
Lab Sample Identification:	**NMED**	**D7F060363-023**	**D7F060363-024**	**D7F060363-025**	**D7F060363-026**	**D7F060363-027**	**D7F060363-028**	**D7F060363-018**	**D7F060363-019**	**D7F060363-020**	**D7F120221-031**
Date Sampled:	**Residential[1]**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/11/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	16	19	22	19	25	15	24	19	NS	19
RCRA Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Barium	15,600	97	44	33	69	19	53	31	39	NS	24
Cadmium	39	0.067 J	0.074 J	ND	0.067 J	ND	0.13 J	ND	ND	NS	ND
Chromium	234	9.5	11	3.5	7	2.4	10	2.7	4.2	NS	2.8
Arsenic	3.9	2.8	3	ND	1.1 J	ND	2.1 J	ND	ND	NS	ND
Lead	400	5.3	6	3.3	4.8	3.2	4.8	3	6.3	NS	2
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
All	NV	ND	ND	ND	ND	ND	ND	UJ	ND	NS	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Diesel Range Organics (C10-C22)	940 [2]	2.1 J	2.2 J	2.1 J	2.0 J	2.5 J	2.0 J	2.4 J	2.0 J	NS	2.2 J
Gasoline Range Organics (C6 -C10)	940 [2]	0.73 J	0.99 J	1.0 J	0.81 J	1.2 J	0.87 J	0.96 J	1.3 J	NS	UJ
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Acetone	28,100	ND	ND	8.1 J	ND	ND	ND	8.2 J	ND	ND	ND
1,2,4-Trichlorobenzene	69.3	0.95 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	12.2	0.73 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NV [3]	1.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	79.5	1.5 J	0.86 J	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Benzo(a)anthracene	6.21	39 J	ND	ND	ND	ND	ND	ND	ND	NS	ND
Benzo(b)fluoranthene	6.21	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Benzo(g,h,i)perylene	NV [3]	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Benzo(a)pyrene	0.621	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Chrysene	615	44 J	ND	ND	ND	ND	ND	ND	ND	NS	ND
Fluoranthene	2,290	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Indeno(1,2,3-cd)pyrene	6.21	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Phenanthrene	1,830	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND
Pyrene	2,290	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND

Notes:

NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NS = Not Sampled
NV = No Value
OT38 = Test Sled Maintenance Area
DP = Direct Push
A = sample suffix denoting a field duplicate sample

J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
[3] No Value established for NMED SSL (June, 2006) and EPA Region 6 Human Health Medium Specific Screening Levels (HHMSSL) (Sept, 2008)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The last digit(s) of the client sample identification equal the ending depth of the sampled interval (feet below ground surface)

Table 4-11
Soil Analytical Data (June 2007)
Test Sled Maintenance Area, OT-38
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Soil Screening Levels**	**OT38-DP03-23**	**OT38-DP04-4**	**OT38-DP04-9**	**OT38-DP05-4**	**OT38-DP05-9**	**OT38-DP05-9A**	**OT38-DP06-4**	**OT38-DP06-9**
Lab Sample Identification:	**NMED**	**D7F060363-021**	**D7F070201-001**	**D7F070201-002**	**D7F070201-003**	**D7F070201-004**	**D7F070201-005**	**D7F070201-006**	**D7F070201-007**
Date Sampled:	**Residential[1]**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**
Analyte		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
General Chemistry	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
Percent Moisture	NV	24	22	26	18	16	15	18	18
RCRA Metals Analysis	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Barium	15,600	25	43	25	72	58	61	83	65
Cadmium	39	ND	0.057 J	ND	0.079 J	0.24 J	0.14 J	0.086 J	0.18 J
Chromium	234	1.7 J	3.5	3.1	6.4	6.5	13	7	16
Arsenic	3.9	ND	ND	1.5 J	1.9 J	1.6 J	3	1.9 J	**5.5**
Lead	400	2.6	3.1	2.3	3.7	4.3	5.4	4	6.5
PCBs	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
All	NV	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Diesel Range Organics (C10-C22)	940 [2]	2.2 J	2.1 J	2.2 J	2.1 J	2.0 J	1.9 J	2.1 J	1.9 J
Gasoline Range Organics (C6 -C10)	940 [2]	1.3 J	0.79 J	0.82 J	0.78 J	0.71 J	0.67 J	0.74 J	0.71 J
Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Acetone	28,100	7.7 J	ND	ND	ND	ND	6.8 J	ND	ND
1,2,4-Trichlorobenzene	69.3	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	12.2	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	NV [3]	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	79.5	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds	**mg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
Benzo(a)anthracene	6.21	ND	ND	ND	ND	110 J	ND	ND	ND
Benzo(b)fluoranthene	6.21	ND	ND	ND	ND	190 J	ND	ND	ND
Benzo(g,h,i)perylene	NV [3]	ND	ND	ND	ND	56 J	ND	ND	ND
Benzo(a)pyrene	0.621	ND	ND	ND	ND	97 J	ND	ND	ND
Chrysene	615	ND	45 J	ND	ND	130 J	ND	ND	ND
Fluoranthene	2,290	ND	ND	ND	ND	170 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	6.21	ND	ND	ND	ND	45 J	ND	ND	ND
Phenanthrene	1,830	ND	ND	ND	ND	64 J	ND	ND	ND
Pyrene	2,290	ND	ND	ND	ND	130 J	ND	ND	ND

Notes:

NMED = New Mexico Environment Department
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyls
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
% = percent
ND = Not Detected
NS = Not Sampled
NV = No Value
OT38 = Test Sled Maintenance Area
DP = Direct Push
A = sample suffix denoting a field duplicate sample

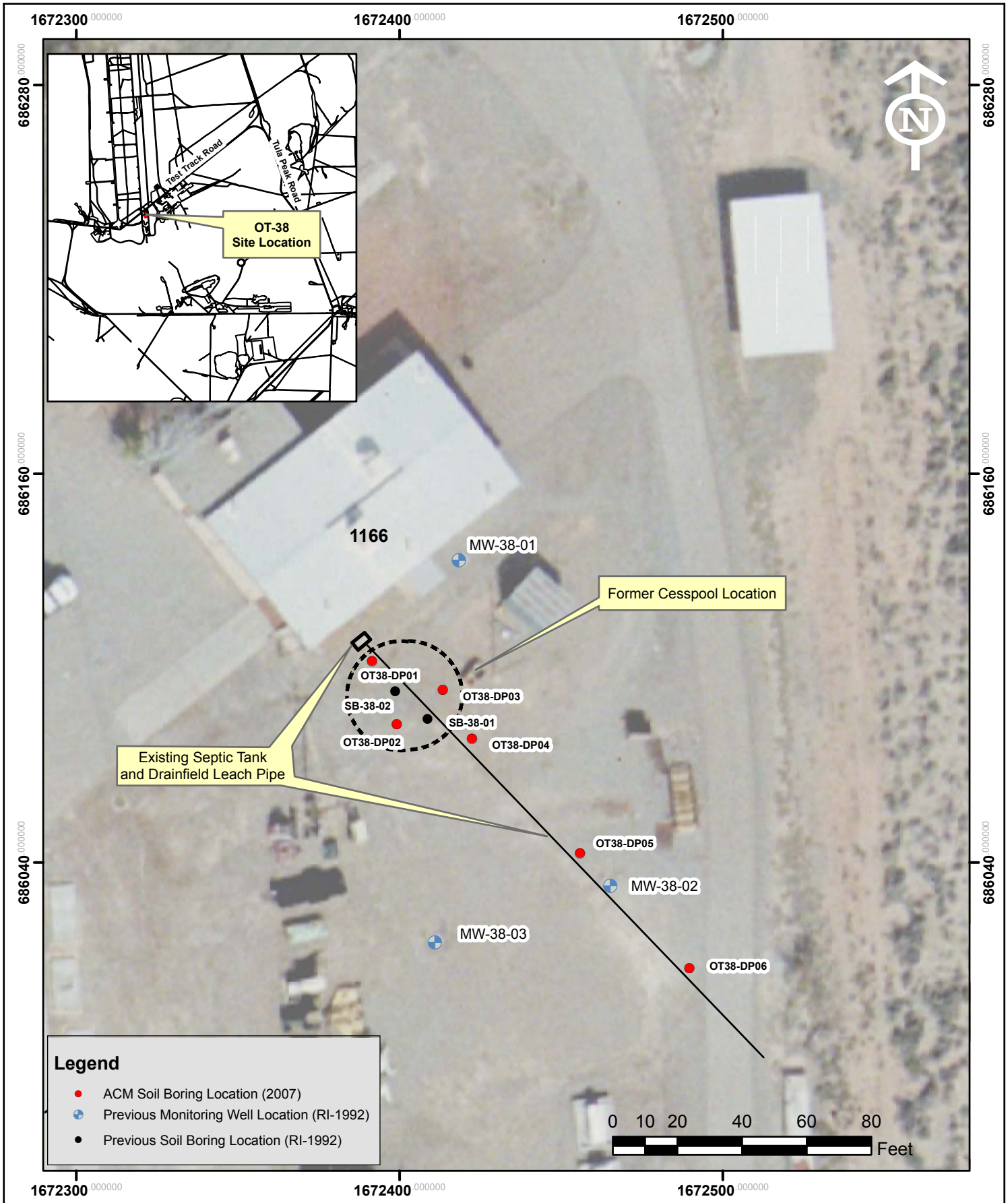
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
UJ = For non detected compounds, the sample quantitaion limit is qualified as approximate.
[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels (SSL), Revision 4.0.
[2] NMED TPH Screening Guidelines for Kerosene and Jet Fuel, Residential Direct Exposure, Table 2b (October, 2006)
[3] No Value established for NMED SSL (June, 2006) and EPA Region 6 Human Health Medium Specific Screening Levels (HHMSSL) (Sept, 2008)
Bold value indicates analytes above NMED SSLs (Rev 4.0, June 2006) or TPH results above NMED TPH Screening Guidelines (October, 2006)
Note: The last digit(s) of the client sample identification equal the ending depth of the sampled interval (feet below ground surface)

Table 4-13
Groundwater Analytical Data (June 2007)
Test Sled Maintenance Area, OT-38
Holloman Air Force Base, New Mexico

Client Sample Identification:	**Groundwater Screening Levels**		**MW38-01**	**MW38-01A**	**MW38-02**	**MW-38-03**
Lab Sample Identification:	**NMWQCC[1]**	**USEPA MCL [2]**	**D7F060363-001**	**D7F060363-002**	**D7F060363-003**	**D7F070201-021**
Date Sampled:			**6/5/2007**	**6/5/2007**	**6/5/2007**	**6/5/2007**
Analyte			**Result**	**Result**	**Result**	**Result**
General Chemistry	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Total Dissolved Solids	1,000	500 [3]	**10,000 Q**	**10,000 Q**	**12,000 Q**	**8,400 Q**
RCRA Metals Analysis	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Selenium	50	50	ND	ND	8.5 J	ND
Barium	1,000	2,000	12	11	12	12
Arsenic	100	10	9.1 J	9.8 J	**11 J**	ND
Perchlorate	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Perchlorate	NV	24.5 [4]	4.9	4.8	5	5.1
PCBs	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
All	NV	NV	ND	ND	ND	ND
Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Chloroform	100	NV	1.5	1.5	1.1	0.67 J
Trichloroethene	100	5	1.2	1.2	0.68 J	0.43 J
Semi-Volatile Organic Compounds	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
bis(2-Ethylhexyl)phthalate	NV	NV	ND	ND	ND	2.6 J

Notes:
NMWQCC = New Mexico Water Quality Control Commision
USEPA = United States Environmental Protection Agency
MCL = Maximum Contaminant Level
RCRA = Resource Conservation and Recovery Act
PCB = Polychlorinated Biphenyls
µg/L = micrograms per liter
mg/L = milligrams per liter
J = Estimated result. Result is between the Method Detection Limit (MDL) and the Reporting Limit (RL), and/or qualified by the validating chemist (see Appendix E).
Q = Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
ND = Not Detected
NV = No Value
% = percent
MW = Monitoring Well
A = sample suffix denoting a field duplicate sample
[1]Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2]USEPA National Primary Drinking Water Standards MCLs (816-F-03-016, June 2003 updated March 18, 2009)
[3]USEPA Secondary Drinking Water Standard
[4] USEPA Reference Dose (RfD) for Perchlorate. RfD of 0.0007 mg/kg/day translates to a Drinking Water Equivalent Level (DWEL) of 24.5 ppb (µg/L),
(http://yosemite.epa.gov/opa/admpress.nsf/0de87f2b4bcbe56e852572a000651fde/c1a57d2077c4bfda85256fac005b8b32!OpenDocument&Highlight=0,perchlorate)

Bold value indicates analytes above New Mexico Groundwater Quality Standard or USEPA MCL



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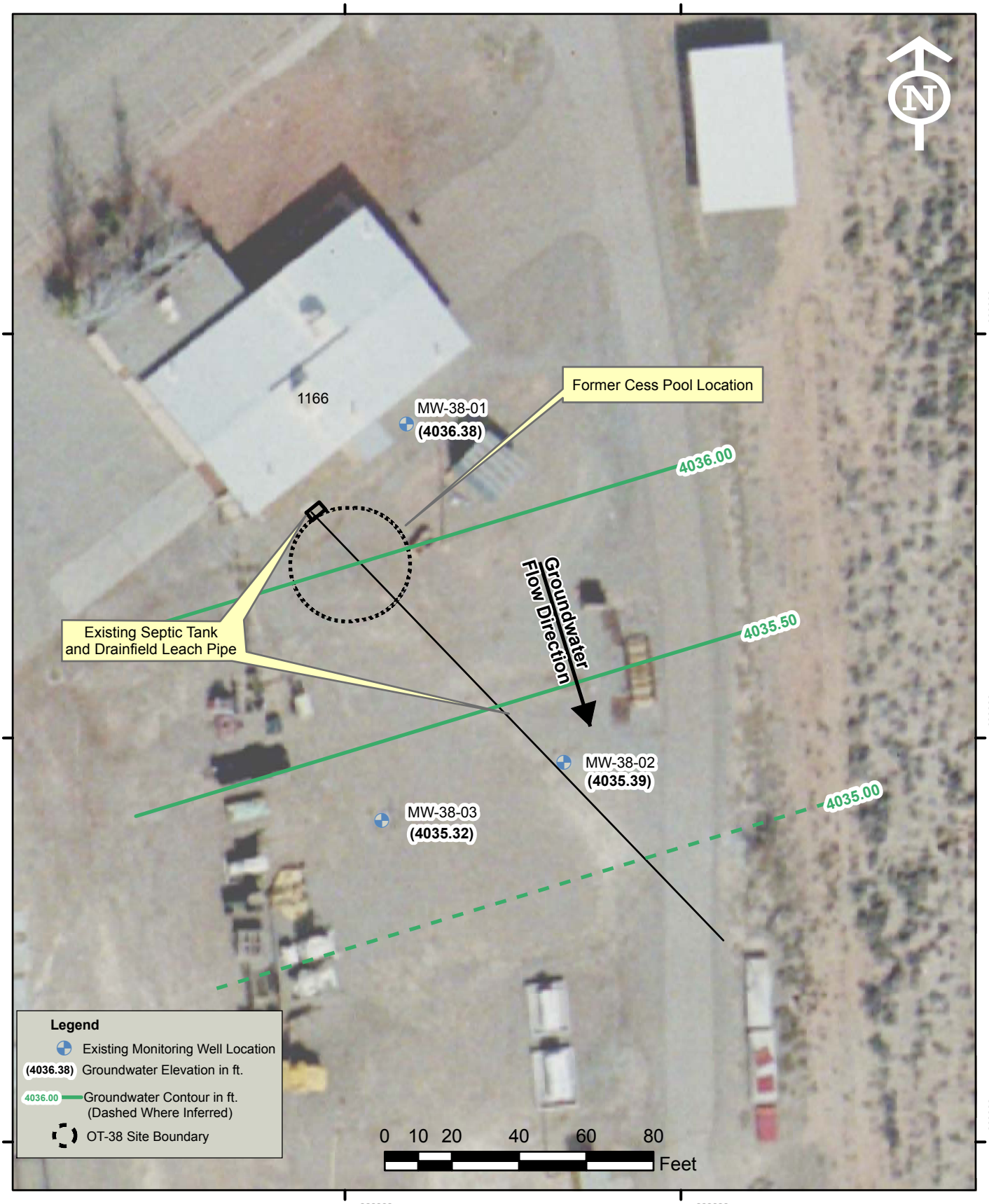
OT-38
ACM and Previous Sampling Locations

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
9050361	1"=40'	11/5/07	DRAWING NO: fig2-10

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-10



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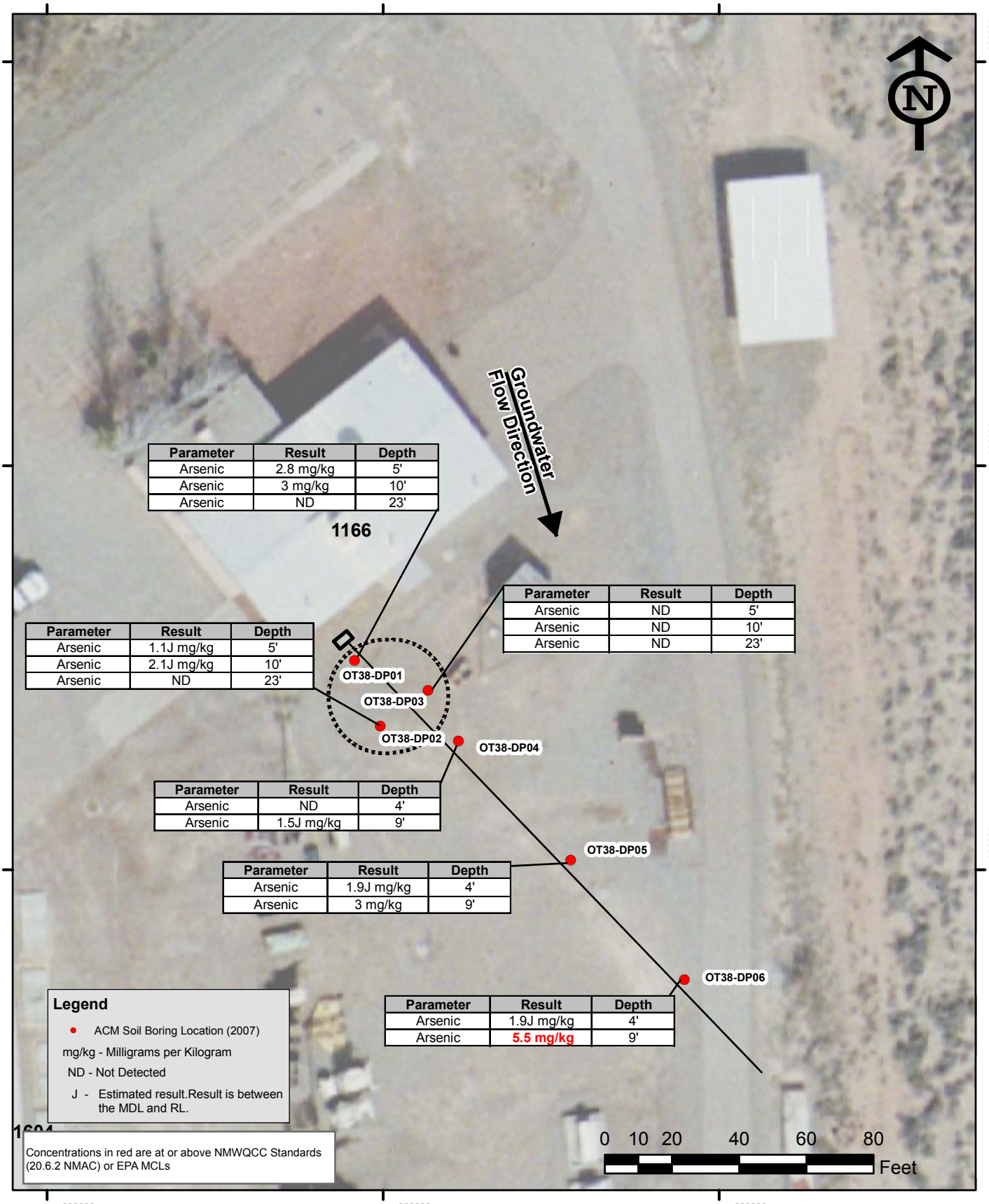
OT-38 Potentiometric Surface Map
June 2007

PROJECT NO.	SCALE	DATE	DRAWN BY:	cm
9050361	1"=40'	11/6/07	DRAWING NO:	fig3-10

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 3-10



Parameter	Result	Depth
Arsenic	2.8 mg/kg	5'
Arsenic	3 mg/kg	10'
Arsenic	ND	23'

Parameter	Result	Depth
Arsenic	ND	5'
Arsenic	ND	10'
Arsenic	ND	23'

Parameter	Result	Depth
Arsenic	1.1J mg/kg	5'
Arsenic	2.1J mg/kg	10'
Arsenic	ND	23'

Parameter	Result	Depth
Arsenic	ND	4'
Arsenic	1.5J mg/kg	9'

Parameter	Result	Depth
Arsenic	1.9J mg/kg	4'
Arsenic	3 mg/kg	9'

Parameter	Result	Depth
Arsenic	1.9J mg/kg	4'
Arsenic	5.5 mg/kg	9'

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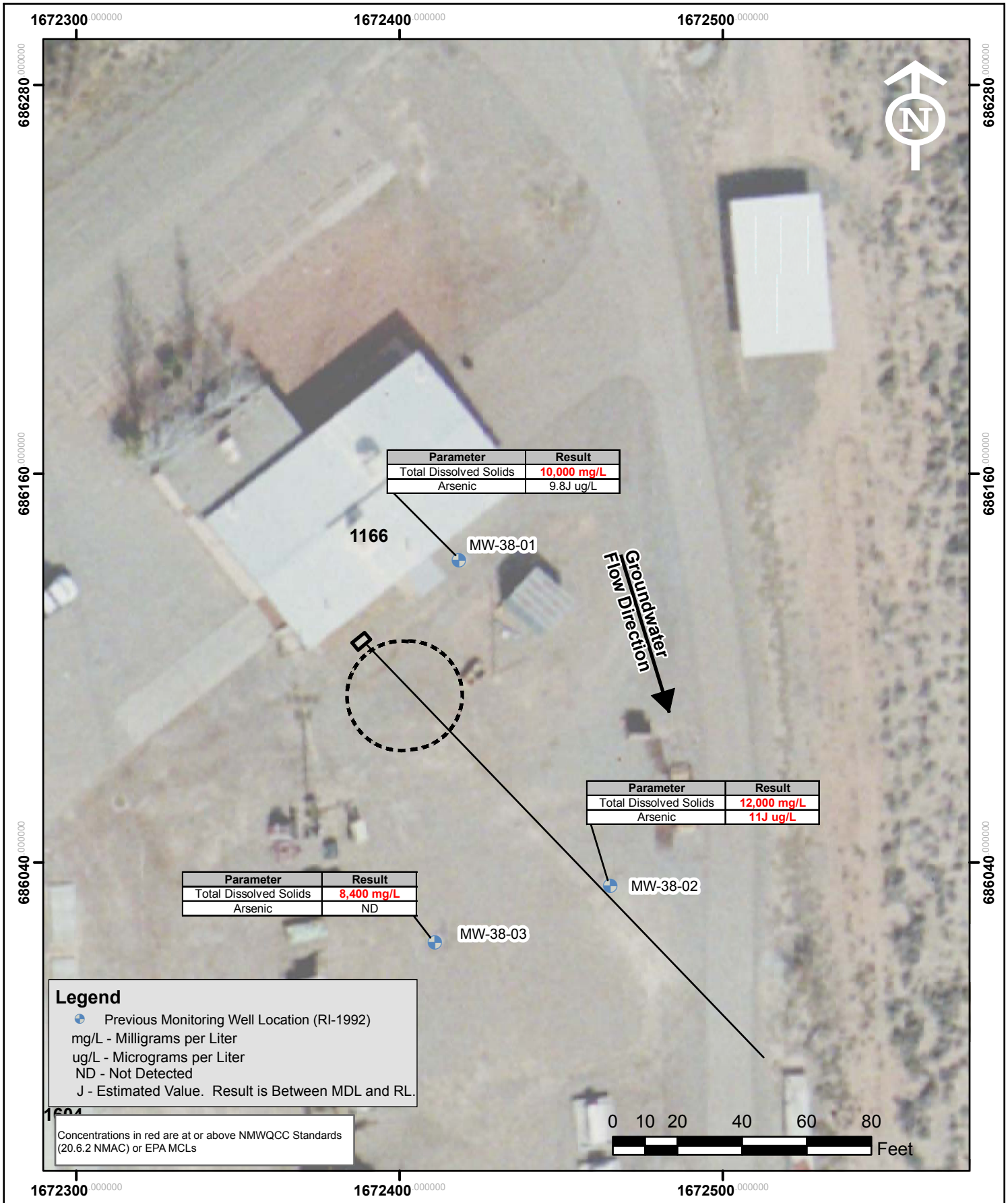
OT-38
Soil Analytical Results

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
9050361	1"=40'	12/4/07	DRAWING NO: fig4-7

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 4-7



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OT-38
Groundwater Analytic Results

PROJECT NO.	SCALE	DATE	DRAWN BY: cm
9050361	1"=40'	12/4/07	DRAWING NO: fig4-8

Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 4-8

Appendix A-6-1 (SS-39)

Portions of the:

Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites
Holloman Air Force Base, NM

Radian Corporation, June 1992

RADIAN
CORPORATION

DCN 92-269-004-16-07
RCN 269-004-16-06

(Mailing Address)
P.O. Box 201088
Austin, TX 78720-1088
(Shipping Address)
8501 North Mopac Blvd.
Austin, TX 78759
(512) 454-4797

REMEDIAL INVESTIGATION (RI) REPORT

INVESTIGATION, STUDY AND RECOMMENDATION FOR 29 WASTE SITES HOLLOMAN AIR FORCE BASE, NM

Volume I

DRAFT FINAL

Prepared for:

49 SG/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 North MoPac Blvd.
P.O. Box 201088
Austin, Texas 78720-1088

Under Contract No. DACW45-89-D-0515 with:

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

June 1992

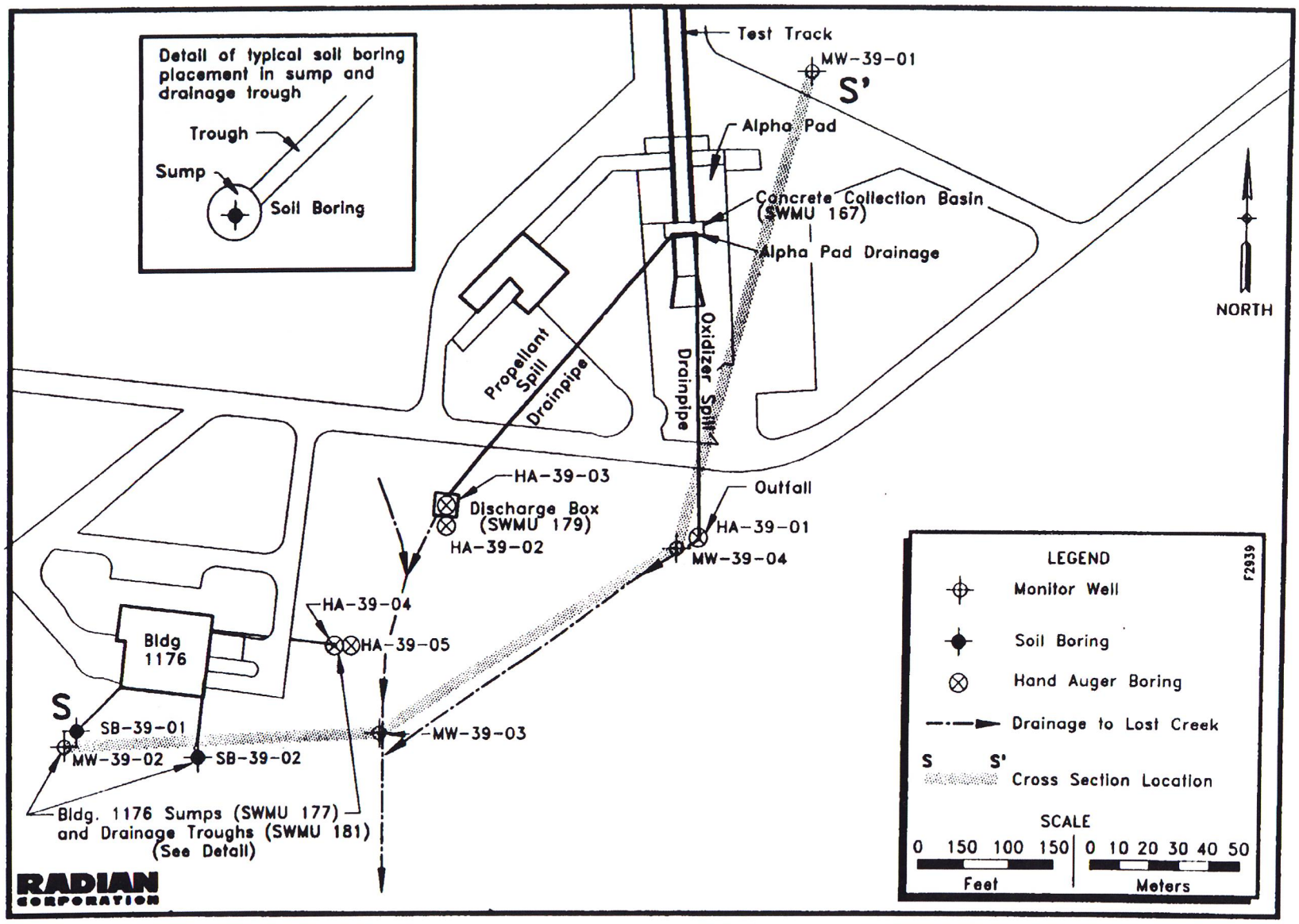


Figure 4-64. Hand Auger Boring, Soil Boring, Monitor Well, and Cross Section Locations for Site 39

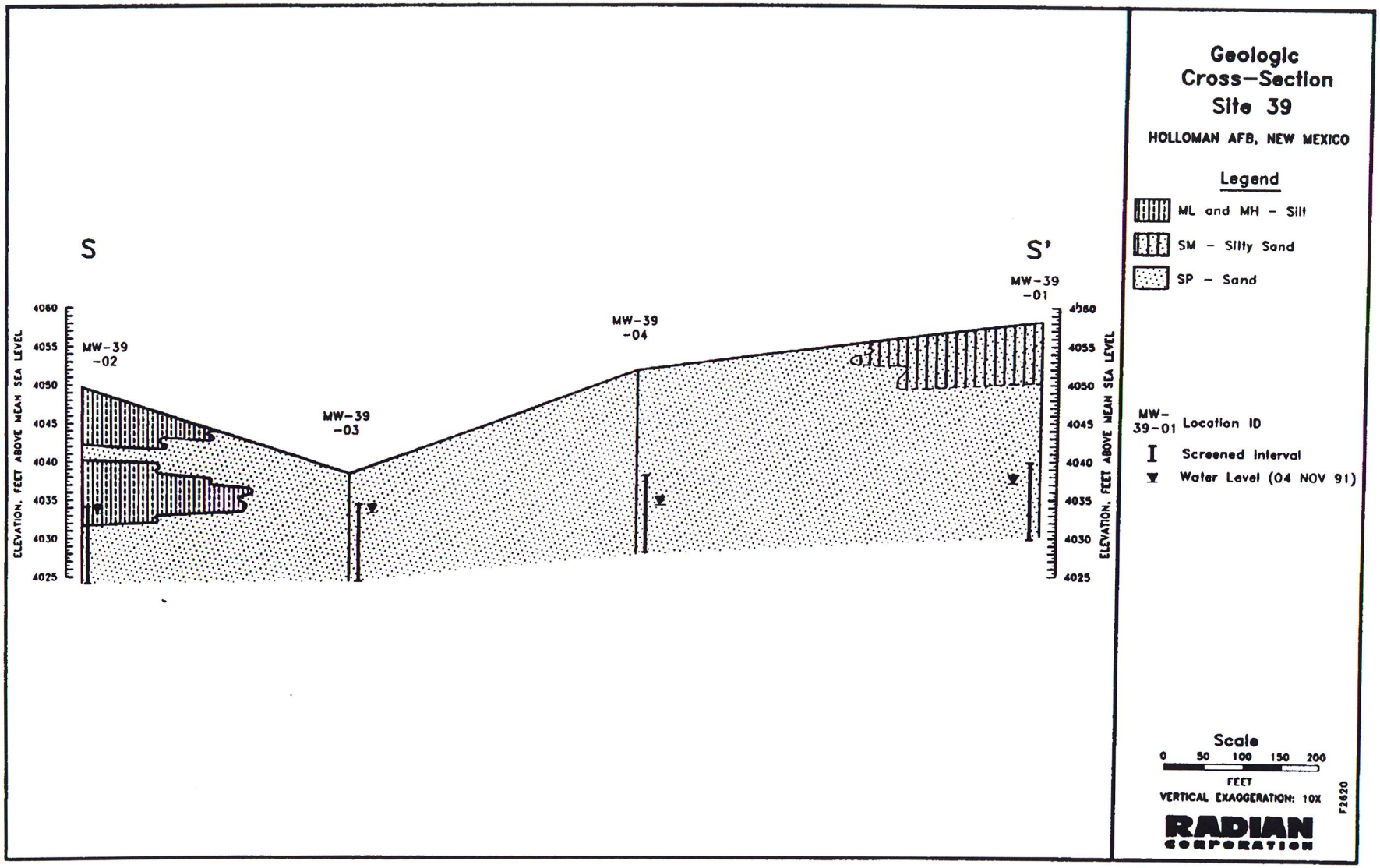


Figure 4-65. Geologic Cross Section for Site 39

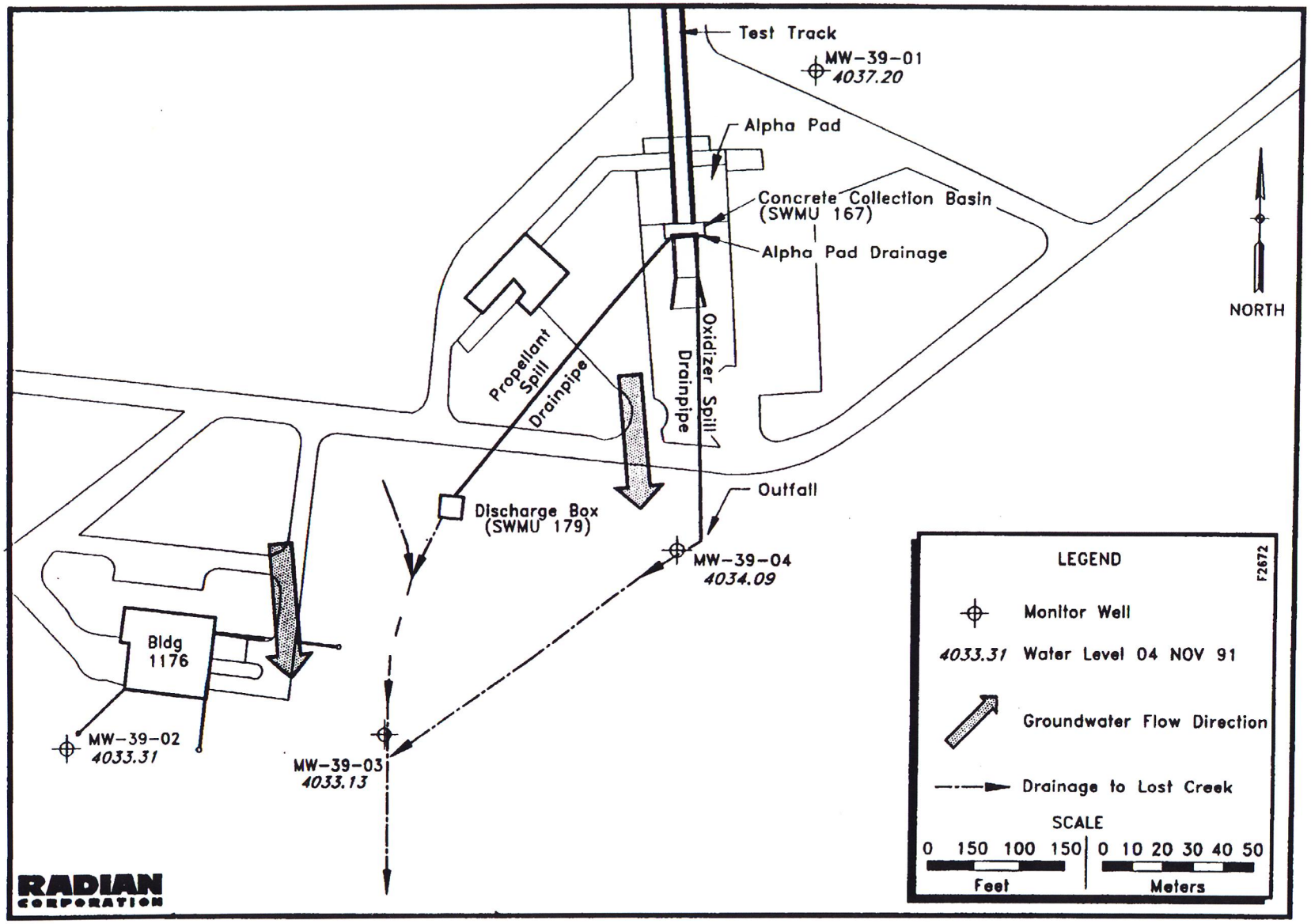


Figure 4-66. Monitor Well Locations and Groundwater Flow Direction for Site 39

Table 4-87

Concentrations of Inorganic Analytes in Site 39 Soil Samples

Location:	SB-39-01				SB-39-02			
Sample ID: Depth:	91JUL1039-001 7.5 - 9.5 ft		91JUL1039-002 10 - 12 ft		91JUL1039-003 10 - 12 ft		91JUL1039-004 15 - 17 ft	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)								
Beryllium	ND	(0.36)	ND	(0.49)	ND	(0.45)	0.58 @	(0.49)
Cadmium	0.98 @	(0.89)	ND	(1.2)	30	(1.1)	4.3 @	(1.2)
Chromium	5.6 @	(1.8)	3.2 @	(2.4)	78	(2.3)	25	(2.4)
Copper	6.0 @	(3.6)	ND	(4.9)	82	(4.5)	5.1 @	(4.9)
Nickel	ND	(3.6)	ND	(4.9)	14 @	(4.5)	8.6 @	(4.9)
Silver	ND	(1.8)	ND	(2.4)	ND	(2.3)	ND	(2.4)
Zinc	52	(3.6)	8.4 @	(4.9)	380	(4.5)	60	(4.9)
SW7060 - Arsenic (mg/kg)	2.6	(0.45)	0.66 @	(0.43)	2.0	(0.40)	2.0 @	(0.44)
SW7421 - Lead (mg/kg)	16	(1.1)	1.0 @	(0.24)	77	(4.3)	9.2	(0.98)
SW7471 - Mercury (mg/kg)	ND	(0.056)	ND	(0.064)	ND	(0.068)	ND	(0.060)

Table 4-87

(Continued)

Location	HA-[illegible]		HA-[illegible]		HA-[illegible]	
Depth	[illegible] 0-2 ft		[illegible] 0-2 ft		[illegible] 0-2 ft	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)						
Beryllium	ND	(0.46)	0.57 @	(0.37)	0.58 @	(0.57)
Cadmium	ND	(1.2)	7.3	(0.92)	7.8	(1.4)
Chromium	8.6 @	(2.3)	26	(1.8)	47	(2.9)
Copper	14 @	(4.6)	91	(3.7)	140	(5.7)
Nickel	6.5 @	(4.6)	23	(3.7)	21 @	(5.7)
Silver	ND	(2.3)	ND	(1.8)	12 @	(2.9)
Zinc	30	(4.6)	250	(3.7)	180	(5.7)
SW7060 - Arsenic (mg/kg)	1.6 @	(0.44)	28	(3.6)	34 @	(9.3)
SW7421 - Lead (mg/kg)	180	(13)	1300	(110)	1100	(140)
SW7471 - Mercury (mg/kg)	ND	(0.064)	0.063 @	(0.050)	ND	(0.069)

Table 4-87

(Continued)

Location:	HA-99-04		HA-99-05	
Sample ID: Depth:	91JUL1039-005 0 - 2 ft		91JUL1039-006 0 - 2 ft	
Analyte	Result	(DL)	Result	(DL)
SW6010 - Metals (mg/kg)				
Beryllium	ND	(0.48)	ND	(0.47)
Cadmium	38	(1.2)	4.0 @	(1.2)
Chromium	190	(2.4)	130	(2.4)
Copper	110	(4.8)	19 @	(4.7)
Nickel	31	(4.8)	58	(4.7)
Silver	ND	(2.4)	ND	(2.4)
Zinc	540	(4.8)	130	(4.7)
SW7060 - Arsenic (mg/kg)	3.7	(0.45)	0.99 @	(0.45)
SW7421 - Lead (mg/kg)	210	(14)	10	(0.68)
SW7471 - Mercury (mg/kg)	0.074 @	(0.053)	ND	(0.060)

NOTE: Table presents only constituents detected in soil at this site.
ND = Not Detected, at the reported detection limit.
@ = Measured result is less than five times the detection limit.

Table 4-88

Concentrations of Organic Analytes in Site 39 Soil Samples

Location:	SB-39-01				SB-39-02			
Sample ID: Depth:	91JULJ0039-001 7.5 - 9.5 ft		91JULJ0039-002 10 - 12 ft		91JULJ0039-003 10 - 12 ft		91JULJ0039-004 15 - 17 ft	
Analyses	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	678	(25.5)	26.3 @	(13.3)	2620	(283)	543	(14.4)
SW8240 - Volatile Organics (ug/kg)								
1,1,1-Trichloroethane	ND	(130)	430000 D	(17000)	87000 D	(3500)	900	(140)
1,1,2-Trichloroethane	ND	(130)	95 J	(130)	ND	(140)	ND	(140)
1,1-Dichloroethane	ND	(130)	260 @	(130)	170 @	(140)	69 J	(140)
1,1-Dichloroethene	ND	(130)	ND	(130)	ND	(140)	44 J	(140)
1,2-Dichloroethane	ND	(130)	140 @	(130)	ND	(140)	ND	(140)
Chloromethane	44 J	(250)	ND	(270)	ND	(280)	ND	(270)
Ethyl benzene	2.9 J	(130)	4.3 J	(130)	81 J	(140)	ND	(140)
Methylene chloride	510 B@	(130)	630 B@	(130)	1400 B	(140)	530 B@	(140)
Tetrachloroethene	ND	(130)	430 @	(130)	95000 D	(3500)	300 @	(140)
Toluene	12 JB	(130)	3400 B	(130)	82 JB	(140)	12 JB	(140)
Trichloroethene	ND	(130)	40000 D	(3400)	11000 D	(1400)	47 J	(140)
Xylenes	8.1 J	(130)	23 J	(130)	290 @	(140)	ND	(140)

Table 4-88

(Continued)

[illegible]	[illegible]		[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EPA 418.1 - TRPH (mg/kg)	50.2 @	(13.4)	660	(24)	811	(35)
SW8240 - Volatile Organics (µg/kg)						
1,1,1-Trichloroethane	ND	(140)	ND	(110)	ND	(150)
1,1,2-Trichloroethane	ND	(140)	ND	(110)	ND	(150)
1,1-Dichloroethane	ND	(140)	ND	(110)	ND	(150)
1,1-Dichloroethene	ND	(140)	18 J	(110)	ND	(150)
1,2-Dichloroethane	ND	(140)	ND	(110)	ND	(150)
Chloromethane	ND	(280)	ND	(230)	ND	(300)
Ethyl benzene	ND	(140)	ND	(110)	ND	(150)
Methylene chloride	720	(140)	350 @	(110)	36 J	(150)
Tetrachloroethene	ND	(140)	ND	(110)	ND	(150)
Toluene	9.1 J	(140)	8.0 J	(110)	9.1 J	(150)
Trichloroethene	ND	(140)	ND	(110)	ND	(150)
Xylenes	ND	(140)	ND	(110)	ND	(150)

Table 4-88

(Continued)

Location	HA-29-04		HA-30-01	
Sample ID Depth	91XXLJHC9-005 0 - 2 ft		91XXLJHC9-006 0 - 2 ft	
Analyses	Result	(DL)	Result	(DL)
EPA 418.1 - TRPH (mg/kg)	20700	(610)	95.6	(12.4)
SW8240 - Volatile Organics (μg/kg)				
1,1,1-Trichloroethane	ND	(120)	ND	(130)
1,1,2-Trichloroethane	ND	(120)	ND	(130)
1,1-Dichloroethane	ND	(120)	ND	(130)
1,1-Dichloroethene	ND	(120)	22 J	(130)
1,2-Dichloroethane	ND	(120)	ND	(130)
Chloromethane	ND	(240)	ND	(260)
Ethyl benzene	ND	(120)	5.9 J	(130)
Methylene chloride	54 J	(120)	260 @	(130)
Tetrachloroethene	ND	(120)	28 J	(130)
Toluene	8.9 J	(120)	9.3 J	(130)
Trichloroethene	ND	(120)	ND	(130)
Xylenes	38 J	(120)	13 J	(130)

NOTE: Table presents only constituents detected in soil at this site.
ND = Not Detected, at the reported detection limit.
D = Secondary dilution required for this analyte.
J = Detected below the detection limit.
@ = Measured result is less than five times the detection limit.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.

Table 4-89

Concentrations of Inorganic Analytes in Site 39 Groundwater Samples

Location: Sample ID:	MW-39-01 39-01-01		MW-39-02 39-02-01		MW-39-03 39-03-01		MW-39-04 39-04-01	
Analyte	Result	(DL)	Result	(DL)	Result	(DL)	Result	(DL)
EPA 160.1 - Total Dissolved Solids (mg/L)	11000	(10)	13000	(10)	14000	(10)	2600	(10)
EPA 300.0 - Chloride (mg/L)	2200	(26)	4200	(26)	4500	(26)	39	(0.26)
EPA 300.0 - Sulfate (mg/L)	4300	(5.0)	4400	(5.0)	3500	(5.0)	ND	(0.050)
EPA 340.2 - Fluoride (mg/L)	1.8	(0.10)	1.5	(0.10)	1.9	(0.10)	0.77	(0.10)
EPA 353.1 - Nitrate-Nitrite (mg/L)	48	(1.1)	87	(1.1)	49	(1.1)	0.52	(0.022)
EPA 365.2 - Total Phosphorus (mg/L)	0.22	(0.020)	0.18	(0.020)	0.21	(0.020)	0.093 @	(0.020)
SW6010 - Metals (mg/L)								
Beryllium	ND	(0.0020)	0.0029 @	(0.0020)	0.0025 @	(0.0020)	ND	(0.0020)
Cadmium	ND	(0.0050)	0.0059 @	(0.0050)	ND	(0.0050)	ND	(0.0050)
Chromium	ND	(0.010)	0.020 @	(0.010)	0.021 @	(0.010)	ND	(0.010)
Copper	ND	(0.020)	ND	(0.020)	0.12	(0.020)	ND	(0.020)
Nickel	ND	(0.020)	0.030 @	(0.020)	0.038 @	(0.020)	ND	(0.020)
Zinc	ND	(0.020)	0.071 @	(0.020)	0.058 @	(0.020)	0.024 @	(0.020)
SW7421 - Lead (mg/L)	ND	(0.0030)	0.0078 @	(0.0030)	0.011 @	(0.0030)	0.019	(0.0030)
SW7740 - Selenium (mg/L)	0.015 @	(0.0050)	0.015 @	(0.0050)	0.013 @	(0.0050)	ND	(0.0050)

NOTE: Table presents only constituents detected in groundwater at this site.
ND = Not Detected, at the reported detection limit.
@ = Measured result is less than five times the detection limit.

Table 4-90

Concentrations of Organic Analytes in Site 39 Groundwater Samples

Location	MW-39-01		MW-39-02		MW-39-03		MW-39-04	
Date	[illegible]		[illegible]		[illegible]		[illegible]	
SW8240 - Volatile Organics (ug/L)								
1,1,1-Trichloroethane	ND	(5.0)	240 D	(10)	ND	(5.0)	1.8 J	(5.0)
1,1-Dichloroethane	ND	(5.0)	0.59 J	(5.0)	ND	(5.0)	ND	(5.0)
1,1-Dichloroethene	ND	(5.0)	9.6 @	(5.0)	ND	(5.0)	ND	(5.0)
Acetone	24 J	(100)	ND	(100)	3.5 J	(100)	ND	(100)
Carbon tetrachloride	ND	(5.0)	5.8 @	(5.0)	ND	(5.0)	ND	(5.0)
Chloroform	0.35 J	(5.0)	2.1 J	(5.0)	0.81 J	(5.0)	ND	(5.0)
Chloromethane	ND	(10)	0.72 J	(10)	ND	(10)	ND	(10)
Methylene chloride	14 B@	(5.0)	10 B@	(5.0)	15 B@	(5.0)	15 B@	(5.0)
Tetrachloroethene	0.19 J	(5.0)	1.1 J	(5.0)	0.37 J	(5.0)	ND	(5.0)
Trichloroethene	0.25 J	(5.0)	59	(5.0)	2.7 J	(5.0)	ND	(5.0)

NOTE: Table presents only constituents detected in groundwater at this site.
ND = Not Detected, at the reported detection limit.
D = Secondary dilution required for this analyte.
J = Detected below the detection limit.
@ = Measured result is less than five times the detection limit.
B = Analyte detected in laboratory blank analysis, no blank subtraction performed.

Appendix A-6-2 (SS-39)

Portions of the:

Phase I RCRA Facility Investigation Report, Table 2 Solid Waste Management Units
Holloman Air Force Base, NM

Radian Corporation, October 1994

PHASE I RCRA FACILITY INVESTIGATION REPORT

TABLE 2 SOLID WASTE MANAGEMENT UNITS

VOLUME I

Prepared for:

49 CES/CEV
Holloman Air Force Base, NM

Prepared by:

Radian Corporation
8501 N. Mopac Blvd.
Austin, TX 78759

Under Contract No. DACA45-93-D-0027
with
U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

October 1994

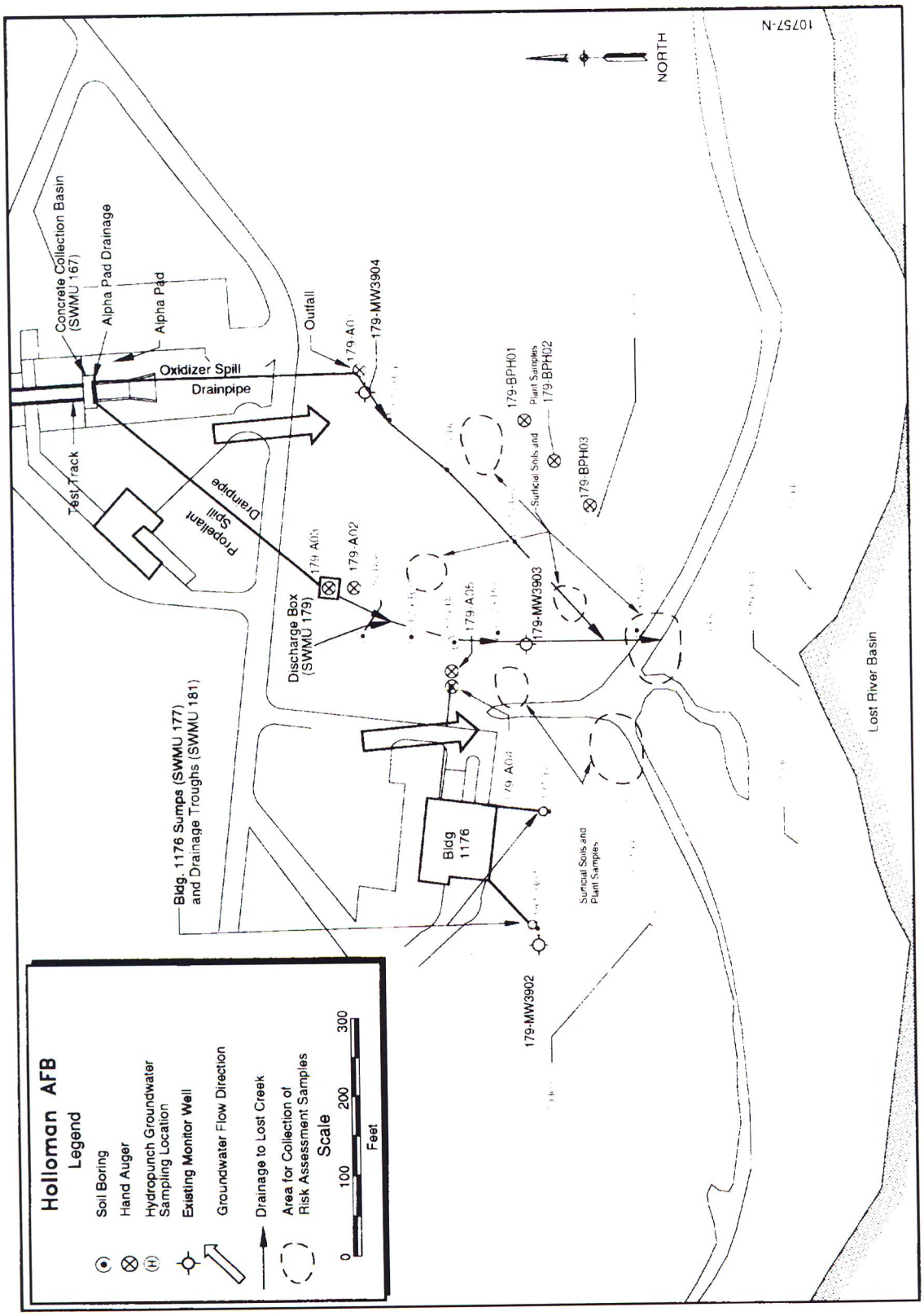


Figure 5.3-1. Features and Sampling Locations at SWMUs 165, 177, 179, and 181

Table 5.3-1
Analytical Results for Soil Samples—SWMU 179

Location ID		179-A01		179-A01		179-A01		179-A02	
Sample ID		179-A01-01-01		179-A01-02-01		179-A01-03-01		179-A02-01-01	
Beg. Depth-End Depth (ft)		0-2		2-4		8-10		2-4	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	84	(0.0502)	80	(0.0403)	143	(0.0524)	41.7	(0.0535)
Cadmium	[80]	11.3	(0.249)	22.4	(0.2)	6.3	(0.26)	2.33	(0.265)
Chromium	[6.6,8x10 ^{4}]	47.8	(0.237)	188	(0.19)	38.6	(0.247)	12.8	(0.252)
Silver	[0.73,400]	< DL	(0.159)	1.5	(0.127)	0.282	(0.166)	< DL	(0.169)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	109 S	(3.96)	94.2 S	(3.62)	22.6 SB	(0.836)	5.84 S	(0.208)
Location ID		179-A02		179-A02		179-A03		179-A03	
Sample ID		179-A02-02-01		179-A02-03-01		179-A03-01-01		179-A03-02-01	
Beg. Depth-End Depth (ft)		4-6		8-10		2-4		4-6	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	32	(0.0634)	48	(0.0565)	36.6	(0.0569)	30.7	(0.058)
Cadmium	[80]	< DL	(0.314)	< DL	(0.28)	0.296	(0.282)	< DL	(0.288)
Chromium	[6.6,8x10 ^{4}]	4.05 B	(0.299)	8.71	(0.266)	8.14	(0.268)	4.59	(0.274)
Silver	[0.73,400]	< DL	(0.2)	< DL	(0.179)	< DL	(0.18)	< DL	(0.183)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	0.592 S	(0.112)	0.11 SB	(0.0799)	6.77 S	(0.2)	1.1 S	(0.105)
Location ID		179-A03		179-A04		179-A04		179-A04	
Sample ID		179-A03-03-01		179-A04-01-01		179-A04-02-01		179-A04-03-01	
Beg. Depth-End Depth (ft)		8-10		2-4		4-6		8-10	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	25.2	(0.054)	33.1	(0.0485)	22.9	(0.0535)	57.5	(0.051)
Cadmium	[80]	< DL	(0.267)	1.09	(0.24)	0.582	(0.265)	< DL	(0.253)
Chromium	[6.6,8x10 ^{4}]	3.67	(0.254)	4.84	(0.228)	4.61	(0.252)	11.1	(0.24)
Silver	[0.73,400]	< DL	(0.171)	< DL	(0.153)	< DL	(0.169)	< DL	(0.161)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	0.535 SB	(0.0772)	43.8 S	(2.01)	44.4 S	(2.02)	13.6 S	(0.325)

Table 5.3-1 (Continued)

Location ID		179-A05		179-A05		179-A05		179-B01	
Sample ID		179-A05-01-01		179-A05-02-01		179-A05-03-01		179-B01-01-01	
Beg. Depth-End Depth (ft)		0-2		4-6		8-10		0-2	
SW8270 - Semivolatile Organics (μg/g)									
Acetophenone	[8000]	NA		NA		NA		ND	(0.0193)
Anthracene	[2.4x10 ⁴]	NA		NA		NA		ND	(0.0262)
Benzo(a)anthracene	[.96]	NA		NA		NA		ND	(0.0245)
Benzo(a)pyrene	[.096]	NA		NA		NA		ND	(0.031)
Benzo(b)fluoranthene	[.96]	NA		NA		NA		ND	(0.0313)
Benzo(g,h,i)perylene	[NS]	NA		NA		NA		ND	(0.0301)
Benzo(k)fluoranthene	[9.59]	NA		NA		NA		ND	(0.0393)
Chrysene	[96]	NA		NA		NA		ND	(0.0324)
Di-n-octylphthalate	[1600]	NA		NA		NA		ND	(0.0355)
bis(2-Ethylhexyl)phthalate	[50]	NA		NA		NA		ND	(0.0663)
Fluoranthene	[3200]	NA		NA		NA		ND	(0.0279)
Indeno(1,2,3-cd)pyrene	[0.96]	NA		NA		NA		ND	(0.0236)
Phenanthrene	[NS]	NA		NA		NA		ND	(0.0362)
Pyrene	[2400]	NA		NA		NA		ND	(0.0198)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	52.9	(0.0439)	38.8	(0.0479)	62	(0.0386)	44	(0.0584)
Cadmium	[80]	0.364 B	(0.218)	0.332 B	(0.237)	0.796 B	(0.191)	< DL	(0.29)
Chromium	[6.6,8x10 ⁴]	10.6	(0.207)	15.8	(0.226)	7.74	(0.182)	7.18	(0.276)
Silver	[0.73,400]	< DL	(0.139)	< DL	(0.151)	< DL	(0.122)	0.239	(0.185)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	275	(7.52)	59.2	(2.06)	46.3	(1.05)	14.4 S	(0.163)

Table 5.3-1 (Continued)

Location ID		179-B01		179-B01		179-B01		179-B02	
Sample ID		179-B01-02-01		179-B01-03-01		179-B01-04-01		179-B02-01-01	
Beg. Depth-End Depth (ft)		2-4		4-6		6-8		0-2	
SW8270 - Semivolatile Organics (µg/g)									
Acetophenone	[8000]	NA		NA		NA		ND	(0.0229)
Anthracene	[2.4x10 ⁴]	NA		NA		NA		ND	(0.0339)
Benzo(a)anthracene	[.96]	NA		NA		NA		ND	(0.0264)
Benzo(a)pyrene	[.096]	NA		NA		NA		ND	(0.0353)
Benzo(b)fluoranthene	[.96]	NA		NA		NA		ND	(0.0467)
Benzo(g,h,i)perylene	[NS]	NA		NA		NA		ND	(0.0502)
Benzo(k)fluoranthene	[9.59]	NA		NA		NA		ND	(0.0489)
Chrysene	[96]	NA		NA		NA		ND	(0.0441)
Di-n-octylphthalate	[1600]	NA		NA		NA		ND	(0.0229)
bis(2-Ethylhexyl)phthalate	[50]	NA		NA		NA		ND	(0.118)
Fluoranthene	[3200]	NA		NA		NA		ND	(0.0262)
Indeno(1,2,3-cd)pyrene	[0.96]	NA		NA		NA		ND	(0.0393)
Phenanthrene	[NS]	NA		NA		NA		ND	(0.0293)
Pyrene	[2400]	NA		NA		NA		ND	(0.0315)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	60.8	(0.0562)	77.1	(0.0538)	37.4	(0.0551)	41.2	(0.0569)
Cadmium	[80]	< DL	(0.279)	< DL	(0.266)	< DL	(0.273)	< DL	(0.282)
Chromium	[6.6,8x10 ⁴]	6.43	(0.265)	7.09	(0.253)	5.97	(0.26)	6.68	(0.268)
Silver	[0.73,400]	0.282	(0.178)	< DL	(0.17)	0.207	(0.174)	< DL	(0.18)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	2.29 S	(0.143)	2.28 S	(0.158)	1.84 S	(0.147)	5.38	(0.0718)
Location ID		179-B02		179-B02		179-B02		179-B03	
Sample ID		179-B02-02-01		179-B02-03-01		179-B02-04-01		179-B03-01-01	
Beg. Depth-End Depth (ft)		2-4		4-6		6-8		0-2	
SW8270 - Semivolatile Organics (µg/g)									
Acetophenone	[8000]	NA		NA		NA		ND	(0.0225)
Anthracene	[2.4x10 ⁴]	NA		NA		NA		ND	(0.0334)
Benzo(a)anthracene	[.96]	NA		NA		NA		ND	(0.026)
Benzo(a)pyrene	[.096]	NA		NA		NA		ND	(0.0348)
Benzo(b)fluoranthene	[.96]	NA		NA		NA		ND	(0.046)
Benzo(g,h,i)perylene	[NS]	NA		NA		NA		ND	(0.0495)

Table 5.3-1 (Continued)

Location ID		179-B02		179-B02		179-B02		179-B03	
Sample ID		179-B02-02-01		179-B02-03-01		179-B02-04-01		179-B03-01-01	
Beg. Depth-End Depth (ft)		2-4		4-6		6-8		0-2	
SW8270 - Semivolatile Organics (µg/g) (Continued)									
Benzo(k)fluoranthene	[9.59]	NA		NA		NA		ND	(0.0482)
Chrysene	[96]	NA		NA		NA		0.0167 J	(0.0434)
Di-n-octylphthalate	[1600]	NA		NA		NA		ND	(0.0226)
bis(2-Ethylhexyl)phthalate	[50]	NA		NA		NA		ND	(0.116)
Fluoranthene	[3200]	NA		NA		NA		0.0169 J	(0.0258)
Indeno(1,2,3-cd)pyrene	[0.96]	NA		NA		NA		ND	(0.0387)
Phenanthrene	[NS]	NA		NA		NA		ND	(0.0289)
Pyrene	[2400]	NA		NA		NA		0.0159 J	(0.031)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	38.5	(0.0468)	67.8	(0.0512)	34.7	(0.0544)	50.6	(0.0516)
Cadmium	[80]	< DL	(0.232)	< DL	(0.254)	< DL	(0.27)	0.499 B	(0.256)
Chromium	[6.6,8x10 ^{4}]	7.18	(0.221)	8.96	(0.241)	5.61	(0.256)	8.36	(0.243)
Silver	[0.73,400]	0.183 B	(0.148)	< DL	(0.162)	< DL	(0.172)	0.178 B	(0.163)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	1.57	(0.0764)	1.46	(0.0727)	0.43	(0.0757)	0.256	(0.00749)
Location ID		179-B03		179-B03		179-B03		179-B04	
Sample ID		179-B03-02-01		179-B03-03-01		179-B03-04-01		179-B04-01-01	
Beg. Depth-End Depth (ft)		2-4		4-6		6-8		0-2	
SW8270 - Semivolatile Organics (µg/g)									
Acetophenone	[8000]	NA		NA		NA		ND	(0.0251)
Anthracene	[2.4x10 ^{4}]	NA		NA		NA		ND	(0.0372)
Benzo(a)anthracene	[.96]	NA		NA		NA		ND	(0.029)
Benzo(a)pyrene	[.096]	NA		NA		NA		ND	(0.0388)
Benzo(b)fluoranthene	[.96]	NA		NA		NA		ND	(0.0513)
Benzo(g,h,i)perylene	[NS]	NA		NA		NA		ND	(0.0551)
Benzo(k)fluoranthene	[9.59]	NA		NA		NA		ND	(0.0537)
Chrysene	[96]	NA		NA		NA		ND	(0.0484)
Di-n-octylphthalate	[1600]	NA		NA		NA		ND	(0.0251)

Table 5.3-1 (Continued)

Location ID		179-B03		179-B03		179-B03		179-B04	
Sample ID		179-B03-02-01		179-B03-03-01		179-B03-04-01		179-B04-01-01	
Beg. Depth-End Depth (ft)		2-4		4-6		6-8		0-2	
SW8270 - Semivolatile Organics (µg/g) (Continued)									
bis(2-Ethylhexyl)phthalate	[50]	NA		NA		NA		ND	(0.13)
Fluoranthene	[3200]	NA		NA		NA		ND	(0.0288)
Indeno(1,2,3-cd)pyrene	[0.96]	NA		NA		NA		ND	(0.0431)
Phenanthrene	[NS]	NA		NA		NA		ND	(0.0322)
Pyrene	[2400]	NA		NA		NA		ND	(0.0345)
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	44.5	(0.0587)	37.7	(0.0548)	73.1	(0.0531)	38.9	(0.0613)
Cadmium	[80]	< DL	(0.291)	< DL	(0.272)	< DL	(0.263)	< DL	(0.304)
Chromium	[6.6,8x10 ^{4}]	6.73	(0.277)	5.82	(0.258)	8.79	(0.25)	7.84	(0.289)
Silver	[0.73,400]	0.238 B	(0.186)	< DL	(0.173)	0.392 B	(0.168)	0.55 B	(0.194)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	4.91	(0.0766)	0.494	(0.0769)	1.62	(0.072)	5.22	(0.0823)
Location ID		179-B04		179-B05		179-B05		179-B05	
Sample ID		179-B04-02-01		179-B05-01-01		179-B05-02-01		179-B05-03-01	
Beg. Depth-End Depth (ft)		2-4		0-2		2-4		4-6	
SW8270 - Semivolatile Organics (µg/g)									
Acetophenone	[8000]	NA		ND	(0.0184)	NA		NA	
Anthracene	[2.4X10 ^{4}]	NA		ND	(0.025)	NA		NA	
Benzo(a)anthracene	[.96]	NA		ND	(0.0234)	NA		NA	
Benzo(a)pyrene	[.096]	NA		ND	(0.0295)	NA		NA	
Benzo(b)fluoranthene	[.96]	NA		ND	(0.0298)	NA		NA	
Benzo(g,h,i)perylene	[NS]	NA		ND	(0.0287)	NA		NA	
Benzo(k)fluoranthene	[9.59]	NA		ND	(0.0375)	NA		NA	
Chrysene	[96]	NA		ND	(0.0309)	NA		NA	
Di-n-octylphthalate	[1600]	NA		ND	(0.0339)	NA		NA	
Fluoranthene	[3200]	NA		ND	(0.0266)	NA		NA	
Indeno(1,2,3-cd)pyrene	[0.96]	NA		ND	(0.0225)	NA		NA	
Phenanthrene	[NS]	NA		ND	(0.0346)	NA		NA	
Pyrene	[2400]	NA		ND	(0.0189)	NA		NA	
bis(2-Ethylhexyl)phthalate	[50]	NA		ND	(0.0633)	NA		NA	

Table 5.3-1 (Continued)

Location ID		179-B04		179-B05		179-B05		179-B05	
Sample ID		179-B04-02-01		179-B05-01-01		179-B05-02-01		179-B05-03-01	
Beg. Depth-End Depth (ft)		2-4		0-2		2-4		4-6	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	54.6	(0.0475)	39.9	(0.0529)	56	(0.058)	22.9	(0.0498)
Cadmium	[80]	< DL	(0.236)	< DL	(0.262)	< DL	(0.287)	< DL	(0.247)
Chromium	[6.6,8x10 ^{4}]	4.93	(0.224)	5.73	(0.249)	8.95	(0.273)	4.11	(0.235)
Silver	[0.73,400]	< DL	(0.15)	< DL	(0.167)	0.286	(0.183)	< DL	(0.158)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	0.531	(0.0584)	6.07 S	(0.153)	4.44 S	(0.153)	2.48 S	(0.16)
Location ID		179-B05		179-B06		179-B06		179-B06	
Sample ID		179-B05-04-01		179-B06-01-01		179-B06-02-01		179-B06-03-01	
Beg. Depth-End Depth (ft)		12-14		0-2		2-4		4-6	
SW8270 - Semivolatile Organics (μg/g)									
Acetophenone	[8000]	NA		0.0234	(0.017)	NA		NA	
Anthracene	[2.4x10 ^{4}]	NA		0.024	(0.0231)	NA		NA	
Benzo(a)anthracene	[.96]	NA		0.119	(0.0216)	NA		NA	
Benzo(a)pyrene	[.096]	NA		0.0985	(0.0273)	NA		NA	
Benzo(b)fluoranthene	[.96]	NA		0.17 F	(0.0276)	NA		NA	
Benzo(g,h,i)perylene	[NS]	NA		0.0232 J	(0.0266)	NA		NA	
Benzo(k)fluoranthene	[9.59]	NA		0.17 F	(0.0347)	NA		NA	
Chrysene	[96]	NA		0.152	(0.0286)	NA		NA	
Di-n-octylphthalate	[1600]	NA		1.02	(0.0313)	NA		NA	
bis(2-Ethylhexyl)phthalate	[50]	NA		0.281	(0.0585)	NA		NA	
Fluoranthene	[3200]	NA		0.23	(0.0246)	NA		NA	
Indeno(1,2,3-cd)pyrene	[0.96]	NA		0.0351	(0.0208)	NA		NA	
Phenanthrene	[NS]	NA		0.124	(0.032)	NA		NA	
Pyrene	[2400]	NA		0.206	(0.0175)	NA		NA	

Table 5.3-1 (Continued)

Location ID		179-B05		179-B06		179-B06		179-B06	
Sample ID		179-B05-04-01		179-B06-01-01		179-B06-02-01		179-B06-03-01	
Beg. Depth-End Depth (ft)		12-14		0-2		2-4		4-6	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	114	(0.0443)	50.1	(0.0474)	55	(0.0568)	19.1	(0.0493)
Cadmium	[80]	< DL	(0.219)	0.57 B	(0.235)	0.578 B	(0.281)	< DL	(0.245)
Chromium	[6.6,8x10 ^{4}]	14.3	(0.209)	10.7	(0.223)	8.71	(0.268)	3.88	(0.233)
Silver	[0.73,400]	< DL	(0.14)	0.233	(0.15)	0.382	(0.179)	< DL	(0.156)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	5.98 S	(0.133)	288 S	(7.25)	28.6 S	(0.73)	0.782 S	(0.142)
Location ID		179-B06		179-B07		179-B07		179-B07	
Sample ID		179-B06-04-01		179-B07-01-01		179-B07-02-01		179-B07-03-01	
Beg. Depth-End Depth (ft)		12-14		4-6		6-8		8-10	
SW8270 - Semivolatile Organics (μg/g)									
Acetophenone	[8000]	NA		ND	(0.019)	NA		NA	
Anthracene	[2.4x10 ^{4}]	NA		ND	(0.0257)	NA		NA	
Benzo(a)anthracene	[.96]	NA		ND	(0.0241)	NA		NA	
Benzo(a)pyrene	[.096]	NA		ND	(0.0304)	NA		NA	
Benzo(b)fluoranthene	[.96]	NA		ND	(0.0307)	NA		NA	
Benzo(g,h,i)perylene	[NS]	NA		ND	(0.0296)	NA		NA	
Benzo(k)fluoranthene	[9.59]	NA		ND	(0.0386)	NA		NA	
Chrysene	[96]	NA		ND	(0.0319)	NA		NA	
Di-n-octylphthalate	[1600]	NA		ND	(0.0349)	NA		NA	
bis(2-Ethylhexyl)phthalate	[50]	NA		ND	(0.0651)	NA		NA	
Fluoranthene	[3200]	NA		ND	(0.0274)	NA		NA	
Indeno(1,2,3-cd)pyrene	[0.96]	NA		ND	(0.0232)	NA		NA	
Phenanthrene	[NS]	NA		ND	(0.0356)	NA		NA	
Pyrene	[2400]	NA		ND	(0.0195)	NA		NA	

Table 5.3-1 (Continued)

Location ID		179-B06		179-B07		179-B07		179-B07	
Sample ID		179-B06-04-01		179-B07-01-01		179-B07-02-01		179-B07-03-01	
Beg. Depth-End Depth (ft)		12-14		4-6		6-8		8-10	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	18.8	(0.0554)	47	(0.058)	35	(0.0509)	19.2	(0.0509)
Cadmium	[80]	0.29 B	(0.275)	< DL	(0.288)	< DL	(0.252)	< DL	(0.252)
Chromium	[6.6,8x10 ^{4}]	4.41	(0.261)	5.75	(0.273)	5.96	(0.24)	3.9	(0.24)
Silver	[0.73,400]	< DL	(0.175)	< DL	(0.183)	< DL	(0.161)	< DL	(0.161)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	0.56 S	(0.149)	0.933 SB	(0.156)	1.42 SB	(0.139)	0.616 SB	(0.141)
Location ID		179-B07		179-B08		179-B08		179-B08	
Sample ID		179-B07-04-01		179-B08-01-01		179-B08-02-01		179-B08-03-01	
Beg. Depth-End Depth (ft)		14-16		0-2		2-4		4-6	
SW8270 - Semivolatile Organics (μg/g)									
Acetophenone	[8000]	NA		ND	(0.0185)	NA		NA	
Anthracene	[2.4x10 ^{4}]	NA		ND	(0.0251)	NA		NA	
Benzo(a)anthracene	[.96]	NA		ND	(0.0235)	NA		NA	
Benzo(a)pyrene	[.096]	NA		ND	(0.0297)	NA		NA	
Benzo(b)fluoranthene	[.96]	NA		ND	(0.03)	NA		NA	
Benzo(g,h,i)perylene	[NS]	NA		ND	(0.0288)	NA		NA	
Benzo(k)fluoranthene	[9.59]	NA		ND	(0.0377)	NA		NA	
Chrysene	[96]	NA		ND	(0.0311)	NA		NA	
Di-n-octylphthalate	[1600]	NA		ND	(0.034)	NA		NA	
bis(2-Ethylhexyl)phthalate	[50]	NA		ND	(0.0635)	NA		NA	
Fluoranthene	[3200]	NA		ND	(0.0267)	NA		NA	
Indeno(1,2,3-cd)pyrene	[0.96]	NA		ND	(0.0226)	NA		NA	
Phenanthrene	[NS]	NA		ND	(0.0347)	NA		NA	
Pyrene	[2400]	NA		ND	(0.019)	NA		NA	

Table 5.3-1 (Continued)

Location ID		179-B07		179-B08		179-B08		179-B08	
Sample ID		179-B07-04-01		179-B08-01-01		179-B08-02-01		179-B08-03-01	
Beg. Depth-End Depth (ft)		14-16		0-2		2-4		4-6	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	21.2	(0.0538)	38.1	(0.0557)	46.4	(0.0503)	46.7	(0.0424)
Cadmium	[80]	< DL	(0.267)	< DL	(0.276)	< DL	(0.249)	< DL	(0.21)
Chromium	[6.6,8x10 ^{4}]	5.39	(0.254)	5.3	(0.262)	5.97	(0.237)	6.35	(0.2)
Silver	[0.73,400]	< DL	(0.17)	0.6	(0.176)	< DL	(0.159)	0.178	(0.134)
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	1.36 SB	(0.138)	12.5 S	(0.317)	1.56 SB	(0.141)	2.05 S	(0.128)
Location ID		179-B08		179-BPH01		179-BPH02		179-BPH03	
Sample ID		179-B08-04-01		179-BPH-01		179-BPH-02		179-BPH-03	
Beg. Depth-End Depth (ft)		10-12		0-1		0-1		0-1	
SW6010 - Metals (mg/kg)									
Barium	[84.36,5600]	33.4	(0.056)	NA		NA		NA	
Cadmium	[80]	< DL	(0.277)	NA		NA		NA	
Chromium	[6.6,8x10 ^{4}]	6.13	(0.264)	NA		NA		NA	
Silver	[0.73,400]	0.555 B	(0.177)	NA		NA		NA	
SW7421 - Lead (mg/kg)									
Lead	[12.3,500]	3.54 S	(0.133)	NA		NA		NA	

Note: The UTLs and the trigger criteria are presented, respectively, in brackets [ ]; [ ] = trigger criteria for organics; [,] = UTL, trigger criteria for inorganics.

( ) = Detection limit.
NS = Not specified.
NA = Not analyzed.
ND = Not detected.
DL = Detection limit.
B = Analyte detected in associated blank analyses.
S = Analyte concentration obtained using the MSA.
J = Estimated concentrations, analyte detected at concentration below the detection limit.
F = Benzo(b)fluoranthene and benzo(k)fluoranthene co-elute. The result reported is the sum of both compounds.

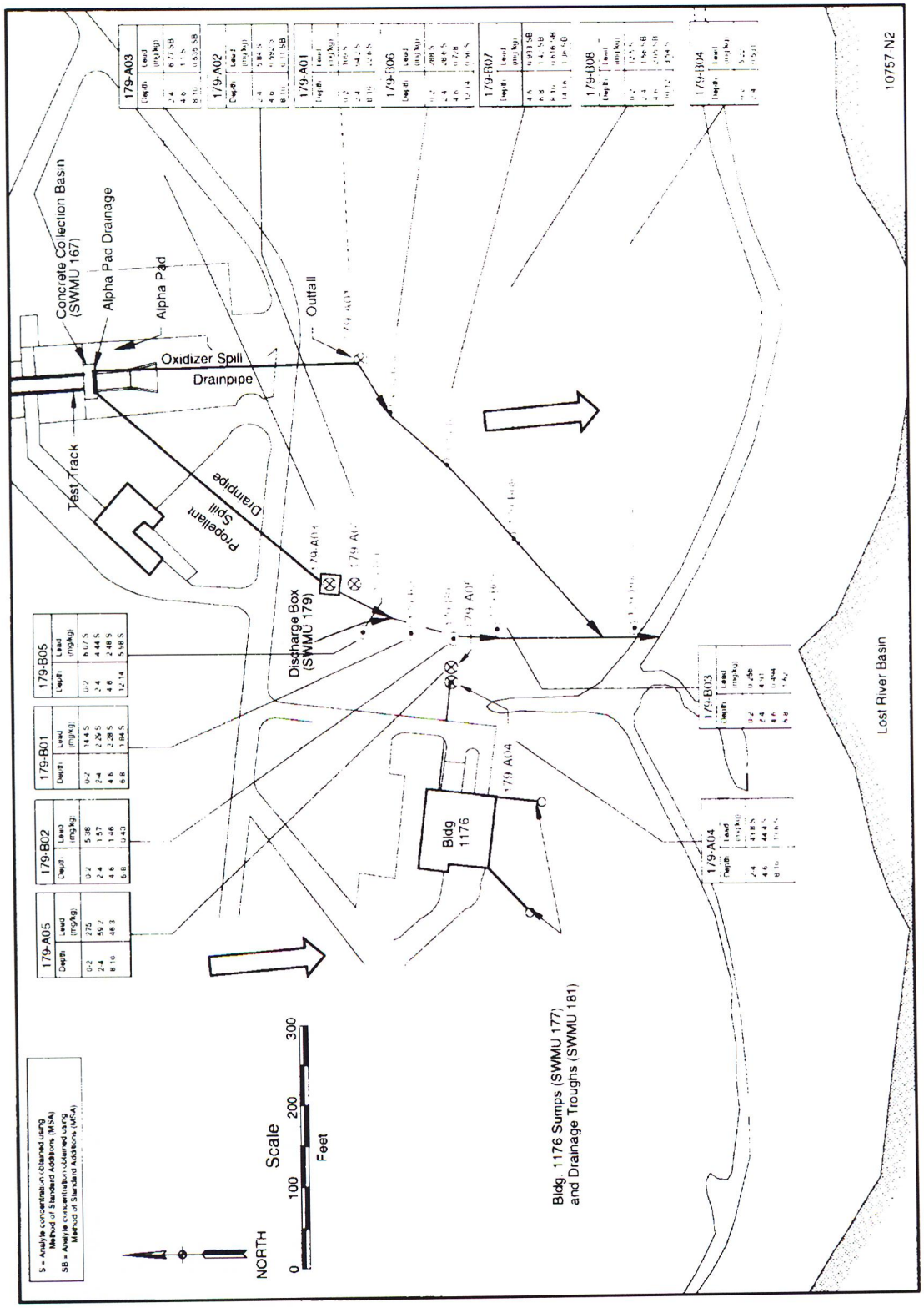


Figure 5.3-2. Occurrences of Lead in the Soil at SWMU 179

Table 5.3-2
Analytical Results for Soil Samples—SWMU 181

Location ID		181-B01		181-B02	
Sample ID		181-B01-01-01		181-B02-01-01	
Beg. Depth-End Depth (ft)		6-8		8-10	
SW8270 - Semivolatile Organics (μg/g)					
4-Chloro-3-methylphenol	[NS]	ND	(0.0169)	4.25	(0.522)
p-Chloroaniline	[3.2×10^{5}]	ND	(0.0396)	1.69	(1.23)
bis(2-Ethylhexyl)phthalate	[50]	ND	(0.112)	19.7 B	(3.46)
2-Methylnaphthalene	[NS]	ND	(0.0245)	6.05	(0.757)
Naphthalene	[NS]	ND	(0.0325)	1.91	(1.01)
SW8270 - Semivolatile Organics TICs (μg/g)					
Ethylmethylbenzene	[NS]	ND	(NS)	50	(NS)
Trimethylbenzene	[NS]	ND	(NS)	20	(NS)

Note: The UTLs and the trigger criteria are presented, respectively, in brackets [ ]; [ ] = trigger criteria for organics; [,] = UTL, trigger criteria for inorganics.

( ) = Detection limit.
NS = Not specified.
NA = Not analyzed.
ND = Not detected.
B = Analyte detected in associated blank analyses.

Table 5.3-3
Analytical Results for Groundwater Samples—SWMU 177

Location ID		177-H01		177-H02		177-H03		177-H04	
Sample ID		177-H01-01-01		177-H02-01-01		177-H03-01-01		177-H04-01-01	
SW8010 - Halogenated Volatile Organics (µg/L)									
1,1,1-Trichloroethane	[NS]	3.73 KBJ	(8.3)	0.842 KBJ	(8.3)	418	(36.8)	1.76 KBJ	(8.3)
1,1-Dichloroethane	[3500]	ND	(1.11)	ND	(1.11)	65.4	(5.55)	ND	(1.11)
Chloroethane	[NS]	ND	(4)	ND	(4)	ND	(20)	0.442 KJ	(5.75)
Chloromethane	[26.92]	2.38 KJ	(7.55)	ND	(7.55)	ND	(37.8)	0.761 KJ	(7.55)
Tetrachloroethene	[6.73]	ND	(3.75)	ND	(3.75)	2.19 KJ	(19)	0.353 KJ	(3.8)
Trichloroethene	[NS]	245	(3.66)	597	(3.66)	2730	(18.3)	324	(3.66)
Vinyl chloride	[0.018]	ND	(7.55)	3.83 KJ	(7.55)	ND	(37.8)	ND	(7.55)
trans-1,3-Dichloropropene	[0.19]	0.492 KJ	(3.6)	ND	(3.6)	ND	(18)	ND	(3.6)

Note: The UTLs and the trigger criteria are presented, respectively, in brackets [ ]; [ ] = trigger criteria for organics; [,] = UTL, trigger criteria for inorganics.

Results greater than trigger criteria are shaded.

( ) = Detection limit.
B = Analyte detected in associated blank analyses.
J = Analyte detected at concentration below the detection limit.
K = Peak did not meet method identification criteria. Analyte not detected on other GC column.
ND = Not detected.
NS = Not specified.

Table 5.3-4
Analytical Results for Groundwater Samples—SWMU 179

Location ID		179-H01		179-H02		179-H03		179-H04	
Sample ID		179-H01-01-01		179-H02-01-01		179-H03-01-01		179-H04-01-01	
SW8010 - Halogenated Volatile Organics (µg/L)									
Trichloroethene	[NS]	38.8	(3)	27.6	(3)	< DL	(3)	4.5	(3)

Note: The UTLs and the trigger criteria are presented, respectively, in brackets [ ]; [ ] = trigger criteria for organics; [,] = UTL, trigger criteria for inorganics.

( ) = Detection limit.
DL = Detection limit.
NS = Not specified.

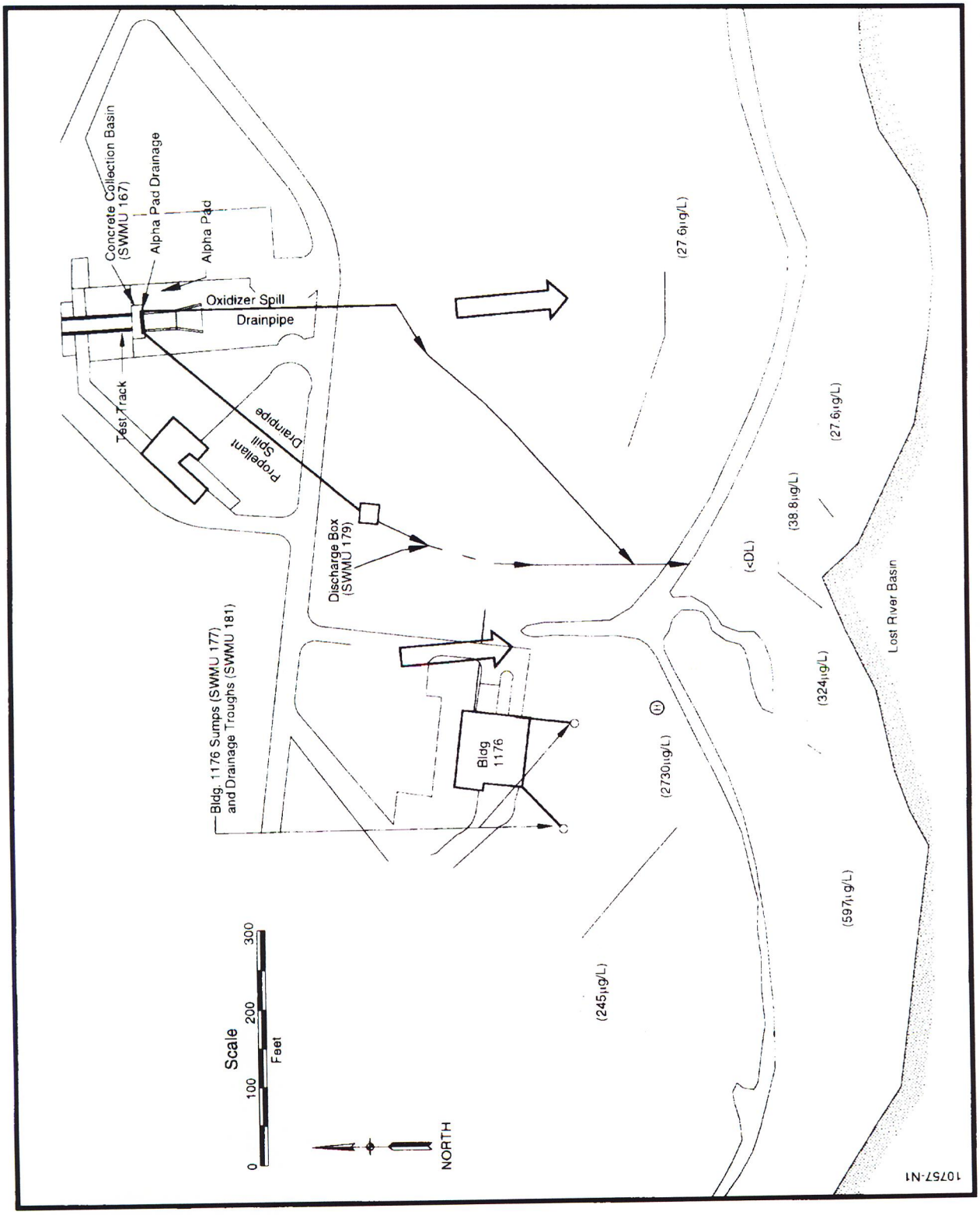


Figure 5.3-3. Occurrences of Trichloroethene in Groundwater at SWMUs 177 and 179

Appendix A-6-3 (SS-39)

Portions of the:

Results of Additional Groundwater Sampling at Site SS-39
Holloman Air Force Base, NM

Groundwater Technology Government Services, Inc., September 1998

17-A-74
AR 1140

GROUNDWATER
TECHNOLOGY
GOVERNMENT SERVICES

Groundwater Technology Government Services, Inc.
2501 Yale Boulevard SE, Suite 204 Albuquerque, NM 87106 USA
Tel· (505) 242-3113 Fax· (505) 242-1103

September 30, 1998

Mr Michael J Bone, P E.
Foster Wheeler Environmental Corporation
143 Union Blvd, Suite 1010
Lakewood, CO 80228

FINAL

RE: Results of Additional Groundwater Sampling at Site SS-39, Holloman Air Force Base, New Mexico, Delivery Order 11, Work Authorization Directive 01

Prime Contract No. DACW-45-94-D-0003
MOA NO. DENS-94-11159JM

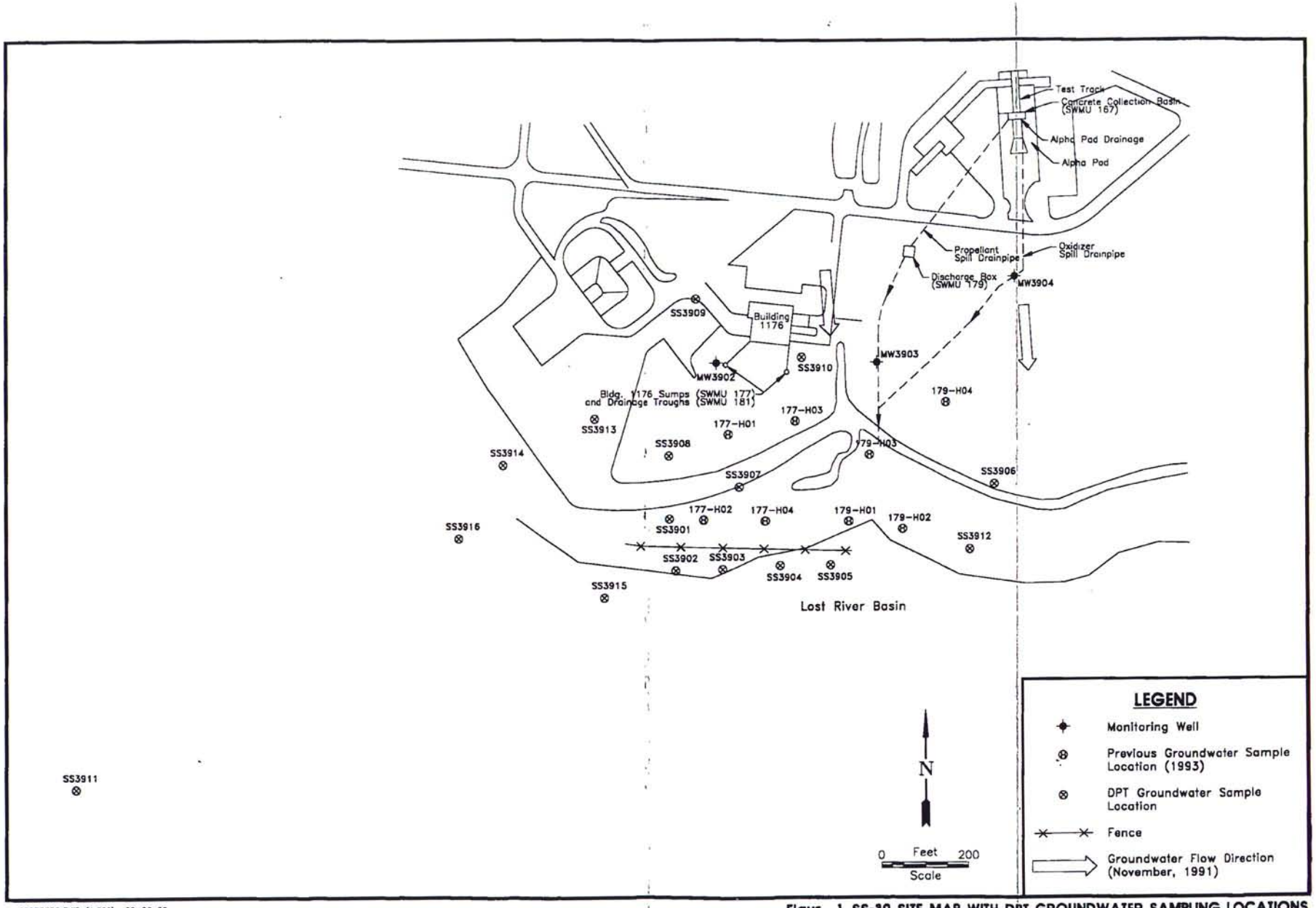
Dear Mr. Bone:

This letter describes the scope of work performed at Site SS-39 (Solid Waste Management Unit [SWMU] 177 and SWMU 179), Holloman Air Force Base (AFB), New Mexico in May-June 1998. The work consisted of collecting direct push technology (DPT) groundwater samples to delineate the extent of trichloroethene (TCE) previously characterized during the Phase II, Table 2 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) (Radian, 1994). The work was performed to fulfill a request for supplemental information by the New Mexico Environment Department (NMED) on the Phase II, Table 2 RFI Report Since the work performed was similar to the Area of Concern (AOC)-Ritas Draw work plan, it was conducted concurrently with the AOC-Ritas Draw field activities and in accordance with applicable standard operating procedures (SOPs) established in the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) for Preliminary Assessment/Site Inspection for AOC-Ritas Draw, Holloman AFB, New Mexico (Foster Wheeler Environmental Corporation [FWENC] and Groundwater Technology, 1998).

1.0 INTRODUCTION

1.1 Purpose and Scope

The purpose of the investigation was to delineate the extent of TCE previously detected during the Phase II, Table 2 RFI (Radian, 1994). A total of 16 groundwater samples were collected



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Figur 1. SS-39 SITE MAP WITH DPT GROUNDWATER SAMPLING LOCATIONS

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
SITE SS-39
HOLLOMAN AFB, NEW MEXICO
MAY AND JUNE 1998

Sample ID	SS39-1-5	SS39-2-1	SS39-3-2	SS39-4-3	SS39-5-4	SS39-6-4	SS39-7-4	SS39-8-8	SS39-9-18	SS39-9-18DP
VOCs-EPA SW-846 Method 8260A (μg/L)										
Acetone	ND<50	ND<20	ND<10	ND<10	ND<10	ND<10	ND<71	ND<36	5 9J	4 9J
Benzene	ND<5 0	ND<2 0	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<7 1	ND<3 6	**1.0**	0 75J
Carbon disulfide	ND<5 0	ND<2 0	ND<1 0	ND<1 0	ND<1.0	ND<1 0	ND<7 1	ND<3 6	0 22J	ND<1 0
Carbon tetrachloride	1 4J	ND<2 0	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<7 1	2 1J	ND<1 0	ND<1 0
Chloroform	1 3J	ND<2 0	ND<1 0	ND<1.0	ND<1.0	0 17J	1.9J	1 4J	ND<1 0	ND<1 0
Chloromethane	ND<10	ND<4 0	ND<2 0	0.11J	ND<2 0	ND<2.0	ND<14	ND<7.1	ND<2 0	ND<2 0
1,1-Dichloroethene	1 5J	ND<2 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	2 1J	1 3J	ND<1 0	ND<1 0
Ethylbenzene	ND<5 0	ND<2 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<7.1	ND<3 6	0 15J	0 11J
Methylene chloride	0 98J,B	0 27J,B	ND<1 0	ND<1 0	0.10J,B	ND<1 0	1.1J,B	0 53J,B	0 19J,B	0.19J,B
Tetrachloroethene	ND<5.0	ND<2.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<7 1	ND<3 6	ND<1.0	ND<1 0
Toluene	ND<5 0	ND<2 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<7 1	ND<3 6	0 79J	0.56J
1,1,1-Trichloroethane	ND<5 0	ND<2.0	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<7 1	ND<3 6	ND<1 0	ND<1 0
Trichloroethene	**230**	**66**	0 63J	**27**	ND<1 0	0.32J	**280**	**130**	0 18J	0 15J
2-Butanone (MEK)	ND<25	ND<10	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<36	ND<18	3 8J	ND<5 0

TABLE 1 (continued)
GROUNDWATER ANALYTICAL RESULTS
SITE SS-39
HOLLOMAN AFB, NEW MEXICO
MAY AND JUNE 1998

Sample ID	SS39-10-17	SS39-11-8	SS39-12-3	SS39-13-11	SS39-14-5	SS39-15	SS39-16	TB-01 (5/18/98)	SS39-TB-1 (5/19/98)	Trip Blank (5/22/98)	Trip Blank (6/24/98)
VOCs-EPA SW-846 Method 8260A (μg/L)											
Acetone	5 1J	ND<10	ND<10	ND<50	ND<17	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
Benzene	0 42J	ND<1 0	ND<1 0	ND<5 0	ND<1 7	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Carbon disulfide	ND<1 0	0 37J	ND<1 0	ND<5 0	ND<1 7	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Carbon tetrachloride	ND<1 0	ND<1 0	ND<1.0	0 86J	ND<1 7	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Chloroform	0 29J	ND<1 0	ND<1 0	1 3J	0 22J	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Chloromethane	ND<2.0	ND<2 0	ND<2 0	ND<10	ND<3 3	ND<2.0	ND<2 0	ND<2 0	ND<2 0	ND<2 0	ND<2 0
1,1-Dichloroethene	ND<1 0	ND<1 0	ND<1.0	1.2J	ND<1 7	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Ethylbenzene	0 12J	ND<1 0	ND<1 0	ND<5 0	ND<1 7	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Methylene chloride	ND<1 0	ND<1 0	ND<1 0	ND<5 0	ND<1.7	ND<1 0	ND<1 0	0 35J,B	0 42J,B	0 39J	**1.3**
Tetrachloroethene	0 14J	ND<1 0	ND<1 0	ND<5 0	ND<1 7	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Toluene	0 50J	ND<1 0	ND<1 0	ND<5 0	ND<1 7	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
1,1,1-Trichloroethane	0 18J	ND<1 0	ND<1 0	ND<5 0	ND<1 7	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
Trichloroethene	0 29J	ND<1 0	**1.1**	**210**	**70**	ND<1 0	ND<1.0	ND<1 0	ND<1 0	ND<1 0	ND<1 0
2-Butanone (MEK)	ND<5 0	1 2J	ND<5 0	ND<25	ND<8 3	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0	ND<5 0

Note	Compounds detected at or above the RL are shown in bold
<	Indicates compound not detected at or above the RL
B	Method blank contamination, the associated method blank contains the target analyte at a reportable level
J	Estimated result, result is less than RL.
ND	Not detected
RL	Reporting limit
μg/L	Micrograms per liter
VOCs	Volatile organic compounds

Appendix A-6-4 (SS-39)

Portions of the:

Supplemental RCRA Facility Investigation DP-30/SD-33, (SWMU 113B), SS-39 (SWMUs 165, 177, 179, and 181) and SD-27 (SWMU 141) Holloman Air Force Base, Alamogordo, New Mexico

HydroGeoLogic, Inc., July 2007

SUPPLEMENTAL RCRA FACILITY INVESTIGATION DP-30/SD-33 (SWMU 113B), SS-39 (SWMUS 165, 177, 179, AND 181), AND SD-27 (SWMU 141)

HOLLOMAN AIR FORCE BASE ALAMOGORDO, NEW MEXICO

Prepared for

Air Force Center for Environmental Excellence
3300 Sidney Brooks
Brooks City-Base, Texas 78235-5344

Prepared by

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11107 Sunset Hills Road, Suite 400
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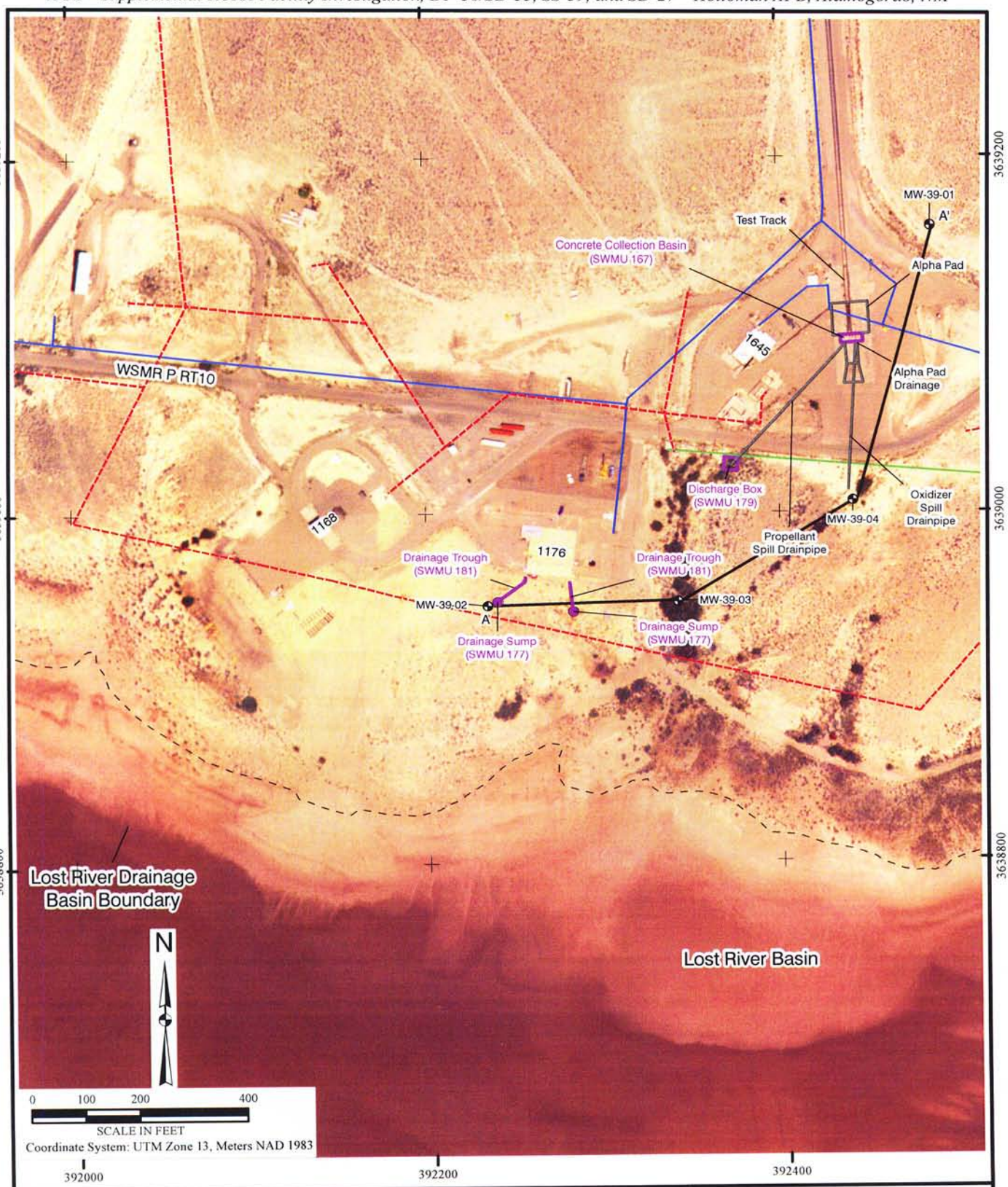
Contract No. F41624-03-D-8602
Task Order No. 037

July 2007



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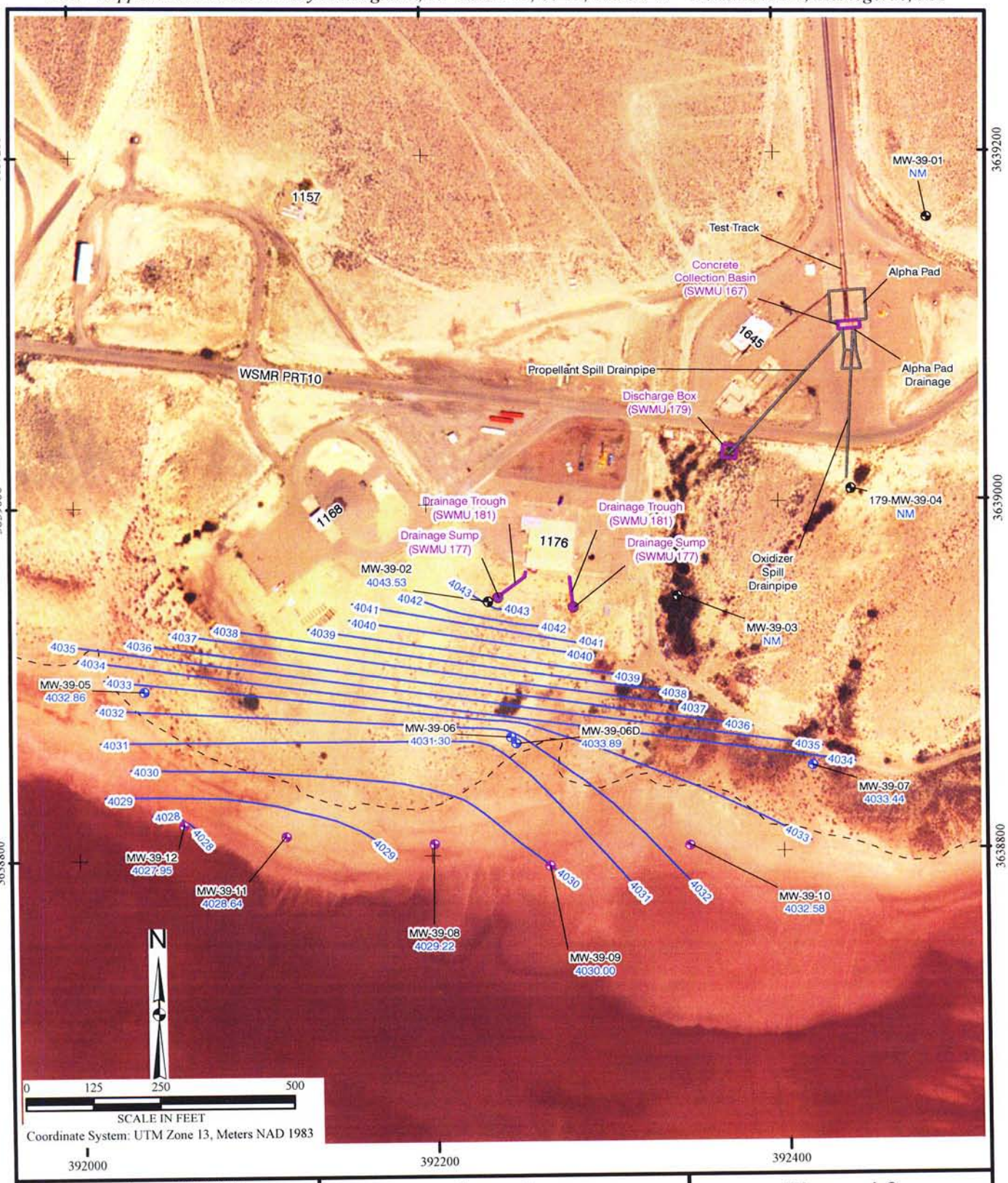
DP-30_SD-33_SS-39_SD-27_Supp_RFI\
SS-39.mxd
Project: AFC002-037-04-11-05
Revised: 05/16/07 PS
Map Source: Holloman AFB

Legend

- Below-Ground Electric
- Lost River Drainage Basin Boundary
- Potable Water
- Waste Water
- SWMU Boundary
- A — A' Line of Section
- Monitoring Well (Existing)

Figure 4.1
SS-39
Layout Map



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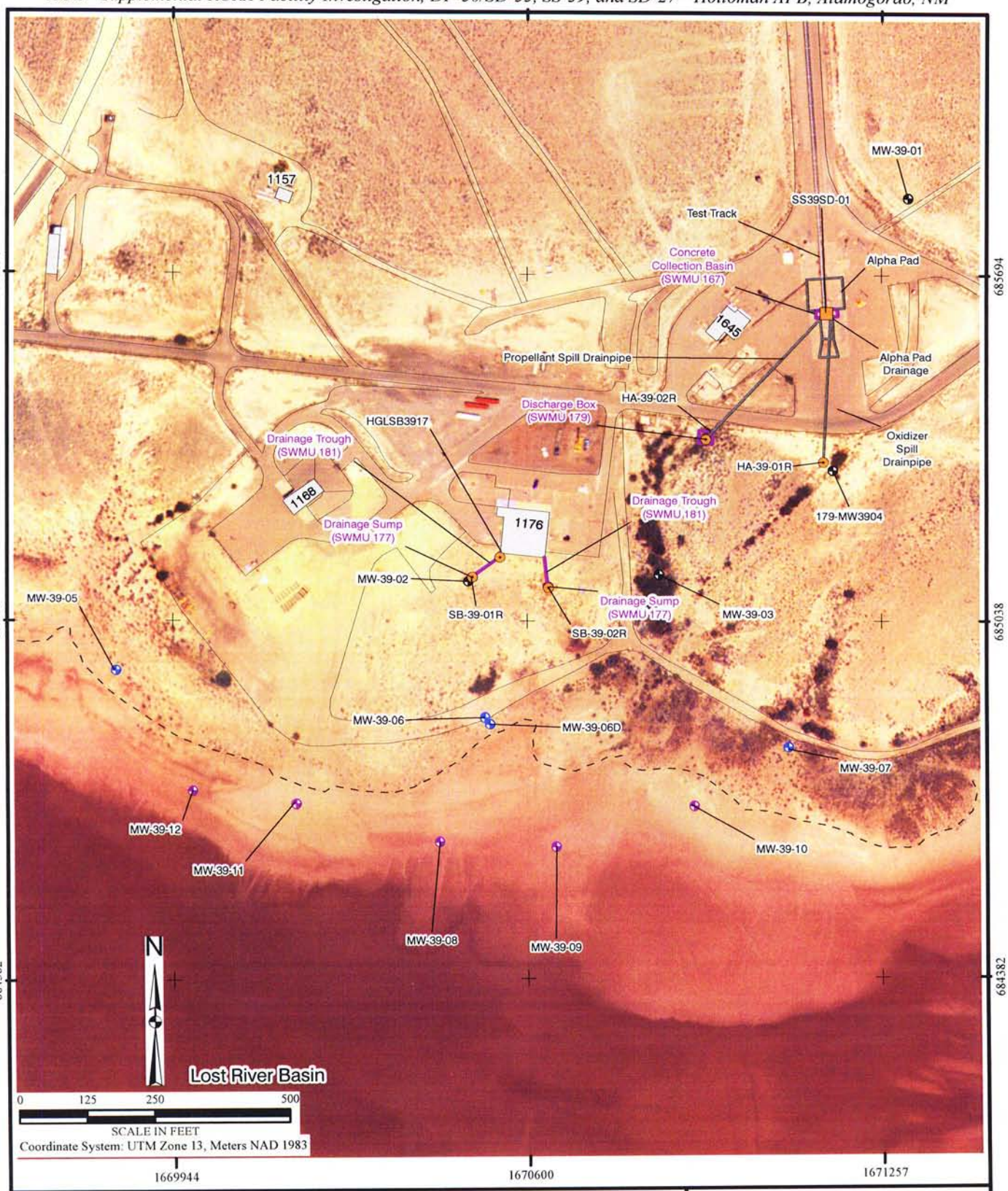
Project: AFC002-037-04-11-05
Revised: 05/18/07 PS
Map Source: Holloman AFB

Legend

- Monitoring Well (Existing)
- Pre-Pack Monitoring Well (Supp RFI)
- Permanent Monitoring Well (Supp RFI)
- SWMU Boundary
- 4028 Groundwater Elevation Contour (ft msl)
- 4032.86 Groundwater Elevation

Figure 4.3
Groundwater Potentiometric Surface Map
July 2006



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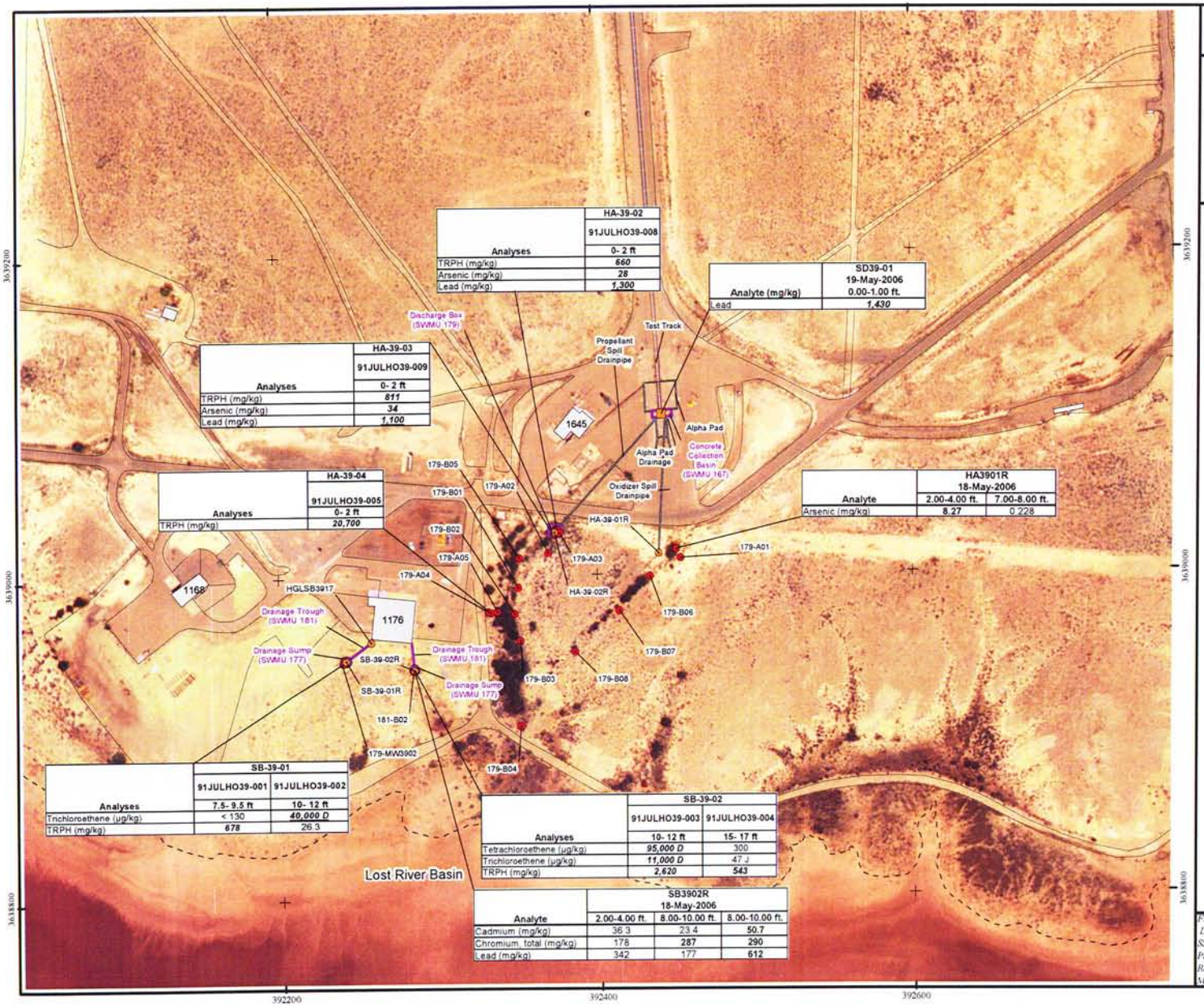
Project: AFC002-037-04-11-05
Revised: 05/18/07 PS
Map Source: Holloman AFB

Legend

- Monitoring Well (Existing)
- Pre-Pack Monitoring Well (Supp RFI)
- Permanent Monitoring Well (Supp RFI)
- Soil Boring
- Lost River Basin Boundary
- SWMU Boundary
- Sediment Sample

Figure 4.9
SS-39 Supplemental RFI Sample Locations



Analyses	HA-39-02 91JULHO39-008 0- 2 ft
TRPH (mg/kg)	**660**
Arsenic (mg/kg)	**28**
Lead (mg/kg)	***1,300***

Analyte (mg/kg)	SD39-01 19-May-2006 0.00-1.00 ft.
Lead	***1,430***

Analyses	HA-39-03 91JULHO39-009 0- 2 ft
TRPH (mg/kg)	***811***
Arsenic (mg/kg)	***34***
Lead (mg/kg)	***1,100***

Analyses	HA-39-04 91JULHO39-005 0- 2 ft
TRPH (mg/kg)	***20,700***

Analyte	HA3901R 18-May-2006 2.00-4.00 ft.	7.00-8.00 ft.
Arsenic (mg/kg)	**8.27**	0.228

Analyses	SB-39-01 91JULHO39-001 7.5- 9.5 ft	91JULHO39-002 10- 12 ft
Trichloroethene (µg/kg)	< 130	***40,000 D***
TRPH (mg/kg)	**678**	26.3

Analyses	SB-39-02 91JULHO39-003 10- 12 ft	91JULHO39-004 15- 17 ft
Tetrachloroethene (µg/kg)	***95,000 D***	300
Trichloroethene (µg/kg)	***11,000 D***	47 J
TRPH (mg/kg)	***2,620***	***543***

Analyte	SB3902R 18-May-2006 2.00-4.00 ft.	8.00-10.00 ft.	8.00-10.00 ft.
Cadmium (mg/kg)	36.3	23.4	**50.7**
Chromium, total (mg/kg)	178	**287**	**290**
Lead (mg/kg)	342	177	**612**

HGL—Supplemental RCRA Facility Investigation, DP-30/SD-33, SS-39, and SD-27 Holloman AFB, Alamogordo, NM

Figure 4.10
SS-39
Soil and Sediment Analyte Exceedances

Legend

- Soil Boring (1994 Table 2 Phase I RFI)
- Supplemental RFI Soil Boring
- Sediment Sample
- Lost River Basin Boundary
- SWMU Boundary

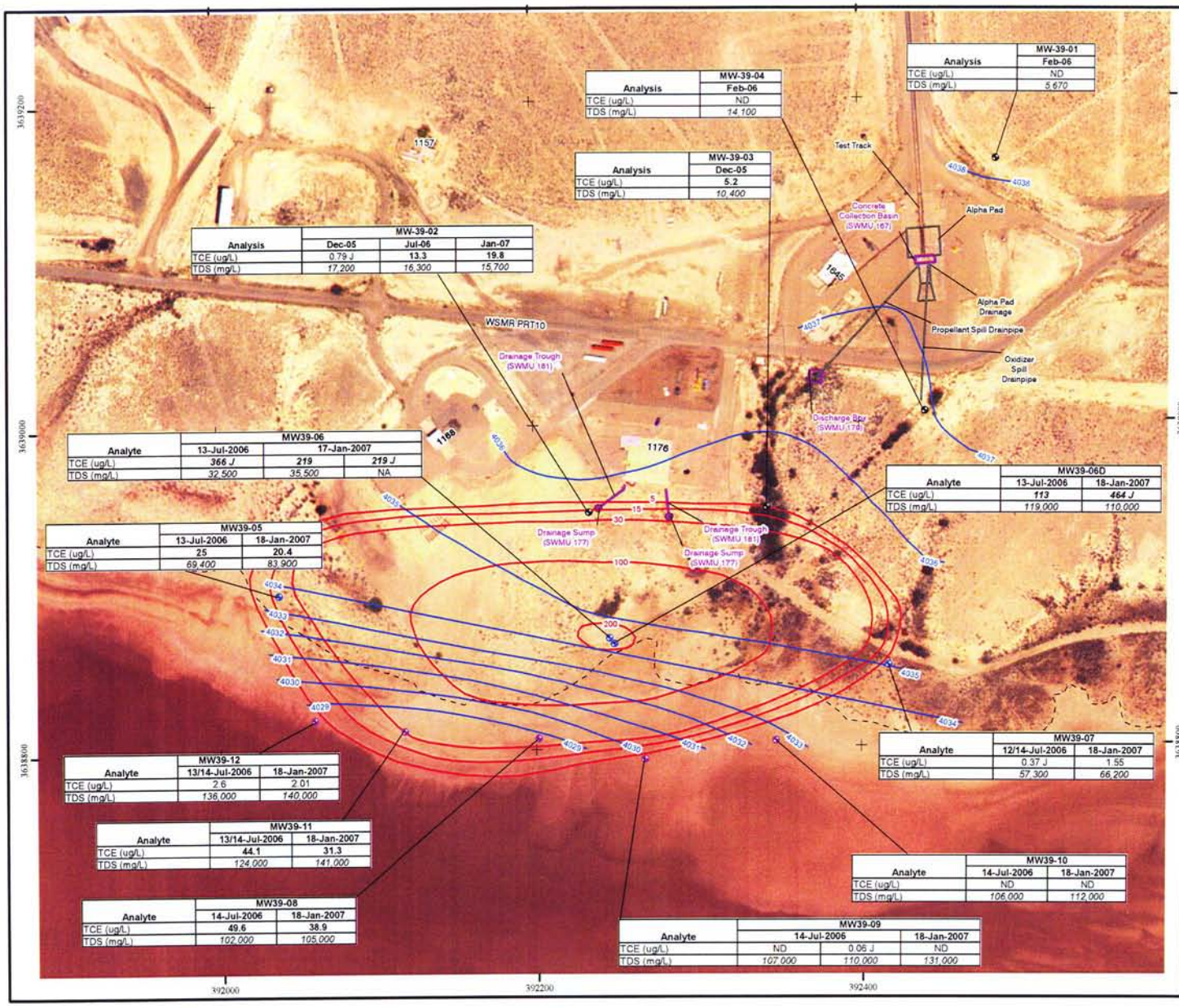
Notes:
Bolded text indicates analyte concentration exceeding NMED residential SSLs
Bolded and italicized values indicates analyte concentration exceeding NMED residential and industrial SSLs
Bolded, italicized, and underlined values indicates analyte concentration exceeding NMED residential, industrial, and construction worker SSLs
< = Analyte not detected above reporting limit
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
TRPH = total recoverable petroleum hydrocarbons

N

0 100 200 400
SCALE IN FEET
Coordinate System: NAD 1983 StatePlane NM Central Feet

File X:/AFC002/Holloman_AFB/TO37/Maps/DP-30_SD-33_SS-39_SD-27_Supp_RFI/SS-39_Soil_Sed_Exceed.mxd
Project: AFC002-037-04-11-02
Revised: 05/29/07 PS
Map Source: Holloman AFB

Figure 4.11
SS-39
TCE Concentration in Groundwater 2007



Analysis	MW-39-01 Feb-06
TCE (ug/L)	ND
TDS (mg/L)	5,670

Analysis	MW-39-04 Feb-06
TCE (ug/L)	ND
TDS (mg/L)	14,100

Analysis	MW-39-03 Dec-05
TCE (ug/L)	5.2
TDS (mg/L)	10,400

Analysis	MW-39-02 Dec-05	Jul-06	Jan-07
TCE (ug/L)	0.79 J	13.3	19.8
TDS (mg/L)	17,200	16,300	15,700

Analyte	MW39-06 13-Jul-2006	17-Jan-2007	
TCE (ug/L)	***366 J***	***219***	***219 J***
TDS (mg/L)	32,500	35,500	NA

Analyte	MW39-06D 13-Jul-2006	18-Jan-2007
TCE (ug/L)	***113***	***464 J***
TDS (mg/L)	119,000	110,000

Analyte	MW39-05 13-Jul-2006	18-Jan-2007
TCE (ug/L)	**25**	**20.4**
TDS (mg/L)	69,400	83,900

Analyte	MW39-12 13/14-Jul-2006	18-Jan-2007
TCE (ug/L)	2.6	2.01
TDS (mg/L)	136,000	140,000

Analyte	MW39-11 13/14-Jul-2006	18-Jan-2007
TCE (ug/L)	**44.1**	**31.3**
TDS (mg/L)	124,000	141,000

Analyte	MW39-08 14-Jul-2006	18-Jan-2007
TCE (ug/L)	**49.6**	**38.9**
TDS (mg/L)	102,000	105,000

Analyte	MW39-09 14-Jul-2006		18-Jan-2007
TCE (ug/L)	ND	0.06 J	ND
TDS (mg/L)	107,000	110,000	131,000

Analyte	MW39-10 14-Jul-2006	18-Jan-2007
TCE (ug/L)	ND	ND
TDS (mg/L)	106,000	112,000

Analyte	MW39-07 12/14-Jul-2006	18-Jan-2007
TCE (ug/L)	0.37 J	1.55
TDS (mg/L)	57,300	66,200

Legend

- Monitoring Well (1997 Data)
- Pre-Pack Monitoring Well (Supp RFI)
- Permanent Monitoring Well (Supp RFI)
- Lost River Basin Boundary
- SWMU Boundary
- TCE Isopleth
- Groundwater Elevation Contour (January 2007)
- Groundwater Elevation

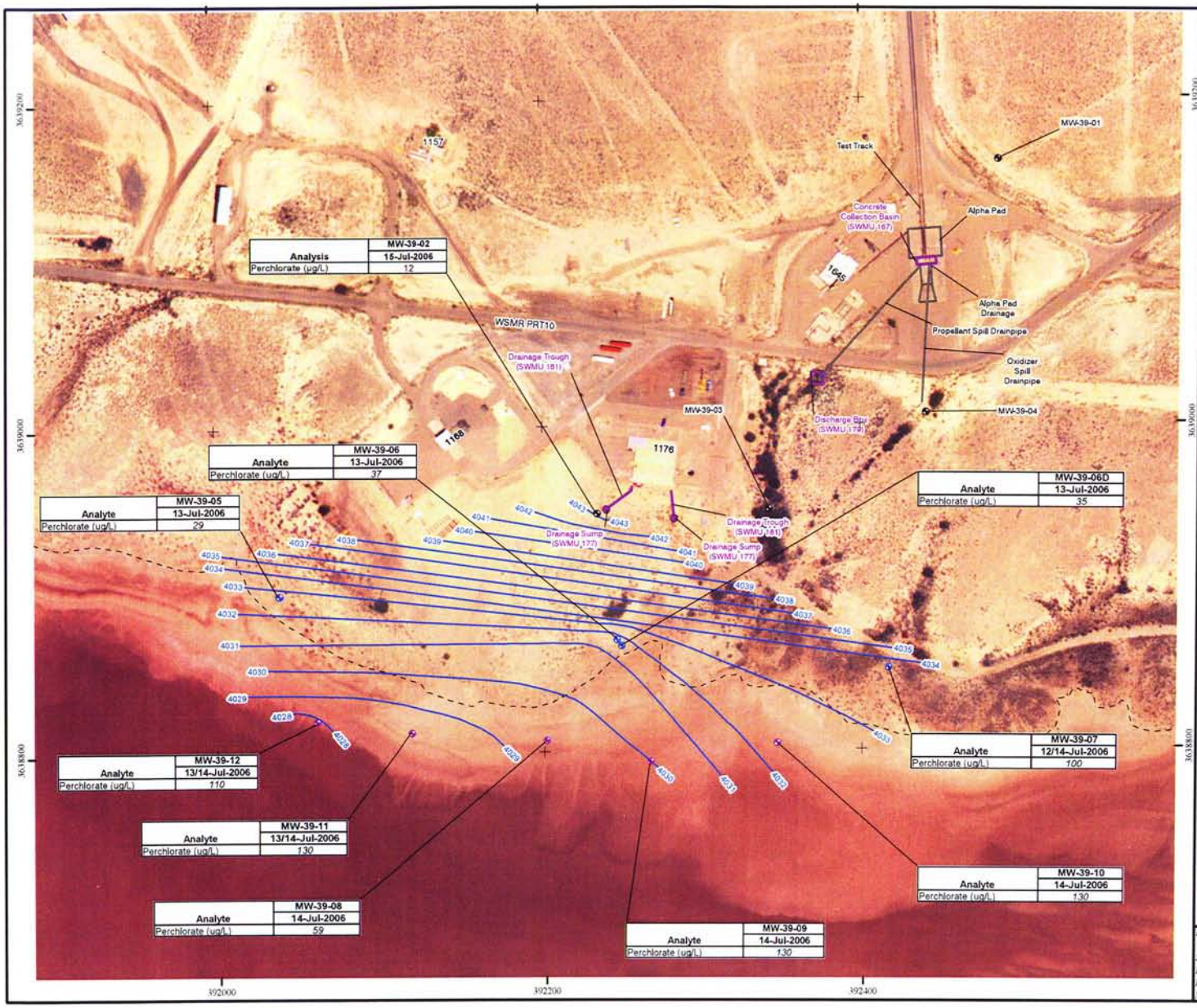
Notes
Bolded value indicates analyte concentration exceeds U.S. EPA MCL.
Italicized value indicates analyte concentration exceeds NMGWQ standard.
Bolded and italicized value indicates analyte concentration exceeds U.S. EPA MCL and NMGWQ standard.
NA = not analyzed
ND = not detected
R = data rejected
µg/L = micrograms per liter

N

0 100 200 400
SCALE IN FEET

Coordinate System: NAD 1983 StatePlane NM Central Feet

File X:\AFC002 Holloman AFB\TO37\Maps\
DP-30_SD-33_SS-39_SD-27_Supp_RFI
SS-39_GW_Jan_2007_Tags.mxd
Project: AFC002-037-04-11-02
Revised: 02/13/06 TB
Map Source: Holloman AFB



Analysis	MW-39-02 15-Jul-2006
Perchlorate (µg/L)	12

Analyte	MW-39-06 13-Jul-2006
Perchlorate (ug/L)	*37*

Analyte	MW-39-05 13-Jul-2006
Perchlorate (ug/L)	*29*

Analyte	MW-39-06D 13-Jul-2006
Perchlorate (ug/L)	*35*

Analyte	MW-39-07 12/14-Jul-2006
Perchlorate (ug/L)	*100*

Analyte	MW-39-12 13/14-Jul-2006
Perchlorate (ug/L)	*110*

Analyte	MW-39-11 13/14-Jul-2006
Perchlorate (ug/L)	*130*

Analyte	MW-39-10 14-Jul-2006
Perchlorate (ug/L)	*130*

Analyte	MW-39-08 14-Jul-2006
Perchlorate (ug/L)	*59*

Analyte	MW-39-09 14-Jul-2006
Perchlorate (ug/L)	*130*

HGL – Supplemental RCRA Facility Investigation, DP-30/SD-33, SS-39, and SD-27 Holloman AFB, Alamogordo, NM

Figure 4.12
SS-39
Perchlorate Concentrations in Groundwater July 2006

Legend

- Monitoring Well (1997 Data)
- Pre-Pack Monitoring Well (Supp RFI)
- Permanent Monitoring Well (Supp RFI)
- Lost River Basin Boundary
- SWMU Boundary
- Groundwater Elevation Contour (July 2006)
- Groundwater Elevation

Notes:
Italicized value indicates analyte concentration exceeds NMGWQ standard.
µg/L = micrograms per liter

N

0 100 200 400
SCALE IN FEET

Coordinate System: NAD 1983 StatePlane NM Central Feet

File X:\AFC002\Holloman_AFB\TO37\Maps\DP-30_SD-33_SS-39_SD-27_Supp_RFI\SS-39_GW_Perch_Tags.mxd
Project: AFC002-037-04-11-02
Revised: 05/29/07 PS
Map Source: Holloman AFB

Table 4.9
Sediment Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI
Holloman AFB, New Mexico

Analyte [1]	Background [2]	NMED Soil Screening Level [3]			SD39-01 19-May-2006 0.00-1.00 ft.	
		Residential	Industrial	Construction Worker	Val	Q
Semi-Volatile Organic Compounds (µg/kg)						
Acetophenone	NA	1,480,000	1,480,000	1,480,000	2,680	
Diethyl phthalate	NA	48,900,000	100,000,000	100,000,000	932	J
Dimethyl phthalate	NA	100,000,000	100,000,000	100,000,000	1,120	J
Metals (mg/kg)						
Barium	84.4	15,600	100,000	60,200	168	
Cadmium	1.0	39	564	154	7.31	
Chromium, total	24.6	210 [4]	450 [4]	500 [4]	43.2	
Lead	12.3	400	800	800	***1,430***	
Mercury	--	6.11 [5]	68.4 [5]	23.8 [5]	0.0516	
Silver	0.73	391	5,680	1,550	0.136	J

Notes:
(1) Sample analyzed for SVOCs (UDMH), aniline, and RCRA metals. UDMH and aniline not detected.
(2) Radian, 1992 and 1993. Background provided for reference only.
(3) Obtained from Table A-1 (NMED, 2006c)
(4) Obtained from Region 6 Human Health Medium Specific Screening Levels (EPA Reg VI, 2007)
(5) Methyl mercury screening criteria used as a surrogate for mercury

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
-- = not detected
NA = not analyzed
ft = feet
UDMH = unsymmetrical dimethylhydrazine
Val = validated result
Q = data qualifier
J = estimated positive detection

Bolded and *italicized* value indicates analyte concentration exceeds NMED residential and industrial SSL

Table 4.10
Soil Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI
Holloman AFB, New Mexico

Analyte [1]	Background [2]	NMED Soil Screening Levels [3]			SB3901R 18-May-2006				SB3902R 18-May-2006						SB39-17 18-May-2006			
					2.00-4.00 ft.		8.00-10.00 ft.		2.00-4.00 ft.		8.00-10.00 ft.		8.00-10.00 ft.		2.00-4.00 ft.		9.00-10.00 ft.	
		Residential	Industrial	Construction Worker	Val	Q	Val	Q	Val	Q	Val	Q	Val [4]	Q [4]	Val	Q	Val	Q
Metals (mg/kg)																		
Arsenic	6.90	3.90	17.70	85.2	0.228	U	0.228	U	0.228	U	0.228	U	0.228	U	0.228	U	0.228	U
Barium	84.4	15,600	100,000	60,200	25.6		19.9		124		70.7		78.8		19.6		11.5	
Cadmium	1.0	39.0	564	154	2.25		0.0795	U	36.3		23.4		**50.7**		0.0795	U	0.0795	U
Chromium, total	24.6	210 [5]	450 [5]	500 [5]	16.9		3.01		178		**287**		**290**		0.528	J	0.615	J
Lead	12.3	400	800	800	18.8		0.65	U	342		177		**612**		0.65	U	0.65	U
Mercury	--	6.11 [6]	68.4 [6]	23.8 [6]	0.0879		0.0088	U	0.435		0.0802		0.0625		0.0088	U	0.0088	U
Silver	0.73	391	5,680	1,550	0.787		0.834		6.34		0.0444	U	0.0444	U	0.991		0.536	

Analyte [1]	Background [2]	NMED Soil Screening Levels [3]			HA3901R 18-May-2006				HA3902R 18-May-2006			
					2.00-4.00 ft.		7.00-8.00 ft.		2.00-4.00 ft.		8.00-9.00 ft.	
		Residential	Industrial	Construction Worker	Val	Q	Val	Q	Val	Q	Val	Q
Metals (mg/kg)												
Arsenic	6.90	3.90	17.70	85.2	**8.27**		0.228	U	0.228	U	0.228	U
Barium	84.4	15,600	100,000	60,200	36.8		21.6		64.4		33.1	
Cadmium	1.0	39.0	564	154	0.294		0.0795	U	0.0795	U	0.0795	U
Chromium, total	24.6	210 [5]	450 [5]	500 [5]	10.4		3.82		6.48		4.38	
Lead	12.3	400	800	800	102		53		20.7		5.05	
Mercury	--	6.11 [6]	68.4 [6]	23.8 [6]	0.0095	J	0.0088	U	0.0094	J	0.0088	U
Silver	0.73	391	5,680	1,550	0.994		1.09		0.0444	U	0.473	

Notes:
(1) Samples analyzed for UDMH, aniline, and RCRA metals. UDMH and aniline not detected.
(2) Radian, 1992 and 1993. Background provided for reference only.
(3) Obtained from Table A-1 (NMED, 2006c)
(4) Duplicate
(5) Obtained from Region 6 Human Health Medium Specific Screening Levels (EPA Reg VI, 2007)
(6) Methyl mercury screening criteria used as a surrogate for mercury

NMED = New Mexico Environment Department
mg/kg = milligrams per kilogram
ft = feet
Val = validated result
Q = data qualifier
U = non-detect result, value presented indicates reporting limit
J = estimated positive detection
UDMH = unsymmetrical dimethylhydrazine
-- = not detected

Bolded value indicates analyte concentration exceeds NMED residential SSL

Table 4.12
Groundwater Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI and January 2007 Groundwater Compliance Long Term Monitoring
Holloman AFB, New Mexico

Analyte	Background [1]	U.S. EPA MCL [2]	NMGWQ Standard [2][3]	MW39-02				MW39-05				MW39-06					
				15-Jul-2006		17-Jan-2007		13-Jul-2006		18-Jan-2007		13-Jul-2006		17-Jan-2007			
				Val	Q	Val	Q	Val	Q	Val	Q	Val	Q	Val	Q	Val[4]	Q[4]
Volatile Organic Compounds (ug/L)																	
1-Bromo-4-Fluorobenzene (4-Bromofluorobenzene)	NA	--	--	NA		48		NA		44.8		NA		47.2		47.3	
1,1-Dichloroethane	NA	--	25	0.0299	U	1	U	0.0299	U	1	U	0.03	J	1	U	1	U
1,1-Dichloroethene	NA	7	5	0.0736	U	0.54	J	0.0736	U	1	U	2.02		1.83		1.88	
Acetone	NA	--	--	0.854	U	10	UJ	0.854	U	10	UJ	0.854	U	10	UJ	10	UJ
Benzene	NA	5	10	0.0495	U	1	U	0.07	J	1	U	0.09	J	1	U	1	U
Bromodichloromethane	NA	--	--	0.0651	U	1	U	0.0651	U	1	U	0.14	J	1	U	1	U
Bromoform	NA	--	--	0.0859	U	1	U	0.0859	U	1	U	0.0859	U	1	U	1	U
Carbon tetrachloride	NA	5	10	3.13		3.08		0.121	U	1	U	1.51		1.93		1.88	
Chlorobenzene	NA	100	--	0.0217	U	1	U	0.03	J	1	U	0.0217	U	1	U	1	U
Chloroform	NA	--	100	1.38		1.44		0.0475	U	1	U	2.85		2.52		2.52	J
Chloromethane	NA	--	--	0.23	U	1	U	0.23	U	1	U	0.37	J	1	U	1	U
cis-1,2-Dichloroethene	NA	70	--	0.101	U	1	U	0.101	U	1	U	0.12	J	1	U	1	U
Dibromofluoromethane	NA	--	--	NA		52.4		NA		53.5		NA		51.9		51.6	
m,p-Xylene (sum of isomers)	NA	10,000[5]	620[5]	0.04	J	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	NA	--	100	0.689	U	5	U	0.689	U	5	U	0.689	U	5	U	5	U
Toluene-D8	NA	1,000	750	NA		47.2		NA		46.5		NA		46.9		46.8	
Trichloroethene (TCE)	NA	5	100	**13.3**		**19.8**		**25**		**20.4**		***366***	***J***	***219***		***219***	***J***
Metals (ug/L)																	
Arsenic	72.3	10	100	NA		5	U	NA		5	U	NA		5	U	5	U
Barium	929	2,000	1,000	NA		14		NA		19		NA		37		26	J
Chromium, total	234	100	50	NA		14		NA		5	U	NA		5	U	5	U
Lead	19.9	15	50	NA		5	U	NA		5	U	NA		5	U	5	U
Filtered Metals (ug/L)																	
Arsenic (Filtered)	35.4	10	100	R[7]		5	U	R[7]		5	U	R[7]		5	U	5	U
Barium (Filtered)	85.2	2,000	1,000	R[7]		14	J	R[7]		15	J	R[7]		12	J	12	J
Cadmium (Filtered)	7.4	5	10	R[7]		1	UJ	R[7]		1	UJ	R[7]		1	UJ	1	UJ
Chromium, total (Filtered)	7.2	100	50	R[7]		7	J	R[7]		5	UJ	R[7]		5	UJ	5	UJ
Selenium (Filtered)	85.3	50	50	R[7]		10	UJ	R[7]		10	UJ	R[7]		10	UJ	10	UJ
Silver (Filtered)	6.7	--	50	R[7]		2	UJ	R[7]		2	UJ	R[7]		2	UJ	2	UJ
Perchlorate (ug/L)																	
Perchlorate	NA	--	<24.5[6]	12		75	U	*29*		*600*	*U*	*37*		*300*	*U*	*300*	*U*
Other Compounds (mg/L)																	
TDS	NA	--	1,000	*16,300*		*15,700*		*69,400*		*83,900*		*32,500*		*35,500*		NA	

Notes
(1) Radian, 1992 and 1993. Background provided for reference only.
(2) US EPA MCLs and NMGWQ standards are provided for refernce only since TDS exceeds 10,000 mg/L
(3) NMAC 20.6.2.3103
(4) Duplicate
(5) Total xylenes EPA MCL and NMGWQ Standard used as surrogate for m,p-Xylene
(6) Human Health Medium Specific Screening Levels 2007 (EPA Reg VI, 2007)
(7) Dissolved metals data rejected (see Section 4.7.4)

µg/L = micrograms per liter
mg/L = milligrams per liter
TDS = total dissolved solids
Val = analytical result
Q = data qualifier
J = positive detection, value between RL and the MDL
U = non-detect result
NA = not analyzed
-- = not applicable; not detected
MDL = method detection limit
RL = reporting limit
U.S. EPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMGWQ = New Mexico Groundwater Quality
NMAC = New Mexico Administrative Code

Bolded value indicates analyte concentration exceeds U.S. EPA MCL
Italicized value indicates analyte concentration exceeds NMGWQ standard
Bolded and *italicized* value indicates analyte concentration exceeds U.S. EPA MCL and NMGWQ standard

Table 4.12 (continued)
Groundwater Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI and January 2007 Groundwater Compliance Long Term Monitoring
Holloman AFB, New Mexico

Analyte	Background [1]	U.S. EPA MCL [2]	NMGWQ Standard [2][3]	MW39-06D				MW39-07				MW39-08			
				13-Jul-2006		18-Jan-2007		12/14-Jul-2006		18-Jan-2007		14-Jul-2006		18-Jan-2007	
				Val	Q	Val	Q	Val	Q	Val	Q	Val	Q	Val	Q
Volatile Organic Compounds (ug/L)															
1-Bromo-4-Fluorobenzene (4-Bromofluorobenzene)	NA	–	–	NA		43.4		NA		45.5		NA		43.8	
1,1-Dichloroethane	NA	–	25	0.0299	U	1	U	0.0299	U	1	U	0.0299	U	1	U
1,1-Dichloroethene	NA	7	5	0.24	J	1.42		0.0736	U	1	U	0.0736	U	1	U
Acetone	NA	–	–	1.88	J	10	UJ	0.854	U	10	UJ	0.854	U	10	UJ
Benzene	NA	5	10	0.09	J	1	U	0.0495	U	1	U	1	U	1	U
Bromodichloromethane	NA	–	–	0.0651	U	1	U	0.0651	U	1	U	0.0651	U	1	U
Bromoform	NA	–	–	0.0859	U	1	U	0.0859	U	1	U	0.0859	U	1	U
Carbon tetrachloride	NA	5	10	0.121	U	1	U	0.121	U	1	U	0.121	U	1	U
Chlorobenzene	NA	100	–	0.04	J	1	U	1	U	1	U	1	U	1	U
Chloroform	NA	–	100	0.27	J	0.65	J	0.11	J	1	U	0.23	J	1	U
Chloromethane	NA	–	–	0.23	U	0.51	J	0.23	U	1	U	0.23	U	1	U
cis-1,2-Dichloroethene	NA	70	–	0.101	U	1	U	0.101	U	1	U	0.101	U	1	U
Dibromofluoromethane	NA	–	–	NA		51.7		NA		51.7		NA		52.8	
m,p-Xylene (sum of isomers)	NA	10,000 [5]	620 [5]	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	NA	–	100	0.689	U	5	U	0.689	U	5	U	0.689	U	5	U
Toluene-D8	NA	1,000	750	NA		45.4		NA		45.9		NA		45.6	
Trichloroethene (TCE)	NA	5	100	***113***		***464***	***J***	0.37	J	1.55		**49.6**		**38.9**	
Metals (ug/L)															
Arsenic	72.3	10	100	NA		**17**		5	U	5	U	NA		5	U
Barium	929	2,000	1,000	NA		17	J	19		44		NA		60	
Chromium, total	234	100	50	NA		5	U	1.4	U	5	U	NA		5	U
Lead	19.9	15	50	NA		5	U	1.6	UJ	5	U	NA		5	U
Filtered Metals (ug/L)															
Arsenic (Filtered)	35.4	10	100	R [7]		5	U	R [7]		5	U	R [7]		5	U
Barium (Filtered)	85.2	2,000	1,000	R [7]		17	J	R [7]		9	J	R [7]		11	J
Cadmium (Filtered)	7.4	5	10	R [7]		1	UJ	R [7]		1	UJ	R [7]		1	UJ
Chromium, total (Filtered)	7.2	100	50	R [7]		5	UJ	R [7]		5	UJ	R [7]		5	UJ
Selenium (Filtered)	85.3	50	50	R [7]		10	UJ	R [7]		10	UJ	R [7]		10	UJ
Silver (Filtered)	6.7	–	50	R [7]		2	UJ	R [7]		2	UJ	R [7]		2	UJ
Perchlorate (ug/L)															
Perchlorate	NA	–	<24.5 [5]	*35*		*600*	*U*	*100*		*300*	*U*	*59*		*600*	*U*
Other Compounds (mg/L)															
TDS	NA	–	1,000	*119,000*		*110,000*		*57,300*		*66,200*		*102,000*		*105,000*	

Notes
(1) Radian, 1992 and 1993. Background provided for reference only.
(2) US EPA MCLs and NMGWQ standards are provided for refernce only since TDS exceeds 10,000 mg/L
(3) NMAC 20.6.2.3103
(4) Duplicate
(5) Total xylenes EPA MCL and NMGWQ Standard used as surrogate for m,p-Xylene
(6) Human Health Medium Specific Screening Levels 2007 (EPA Reg VI, 2007)
(7) Dissolved metals data rejected (see Section 4.7.4)

µg/L = micrograms per liter
mg/L = milligrams per liter
TDS = total dissolved solids
Val = analytical result
Q = data qualifier
J = positive detection, value between RL and the MDL
U = non-detect result
NA = not analyzed
– = not applicable; not detected
MDL = method detection limit
RL = reporting limit
U.S. EPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMGWQ = New Mexico Groundwater Quality
NMAC = New Mexico Administrative Code

Bolded value indicates analyte concentration exceeds U.S. EPA MCL
Italicized value indicates analyte concentration exceeds NMGWQ standard
Bolded and *italicized* value indicates analyte concentration exceeds U.S. EPA MCL and NMGWQ standard

Table 4.12 (continued)
Groundwater Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI and January 2007 Groundwater Compliance Long Term Monitoring
Holloman AFB, New Mexico

Analyte	Background [1]	U.S. EPA MCL [2]	NMGWQ Standard [2][3]	MW39-09						MW39-10				MW39-11			
				14-Jul-2006				18-Jan-2007		14-Jul-2006		18-Jan-2007		13/14-Jul-2006		18-Jan-2007	
				Val	Q	Val[4]	Q[4]	Val	Q	Val	Q	Val	Q	Val	Q	Val	Q
Volatile Organic Compounds (ug/L)																	
1-Bromo-4-Fluorobenzene (4-Bromofluorobenzene)	NA	–	–	NA		NA		42.8	J	NA		43.4		NA		42.9	
1,1-Dichloroethane	NA	–	25	0.0299	U	0.0299	U	1	UJ	0.0299	U	1	U	0.0299	U	1	U
1,1-Dichloroethene	NA	7	5	0.0736	U	0.0736	U	1	UJ	0.0736	U	1	U	0.0736	U	1	U
Acetone	NA	–	–	10	U	10	U	10	UJ	10	U	10	UJ	3.12	J	10	UJ
Benzene	NA	5	10	1	U	1	U	1	UJ	0.0495	U	1	U	0.06	J	1	U
Bromodichloromethane	NA	–	–	0.0651	U	0.0651	U	1	UJ	0.0651	U	1	U	0.0651	U	1	U
Bromoform	NA	–	–	0.16	J	0.0859	U	1	UJ	0.0859	U	1	U	0.0859	U	1	U
Carbon tetrachloride	NA	5	10	0.121	U	0.121	U	1	UJ	0.121	U	1	U	0.121	U	1	U
Chlorobenzene	NA	100	–	1	U	1	U	1	UJ	1	U	1	U	0.03	J	1	U
Chloroform	NA	–	100	0.0475	U	0.0475	U	1	UJ	0.0475	U	1	U	0.0475	U	1	U
Chloromethane	NA	–	–	0.37	J	0.37	J	0.59	J	0.34	J	1	U	0.36	J	0.43	J
cis-1,2-Dichloroethene	NA	70	–	0.101	U	0.101	U	1	UJ	0.101	U	1	U	0.25	J	1	U
Dibromofluoromethane	NA	–	–	NA		NA		52.1	J	NA		52.4		NA		52.2	
m,p-Xylene (sum of isomers)	NA	10,000[5]	620[5]	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U
Methylene chloride	NA	–	100	0.689	U	0.689	U	0.58	J	0.689	U	5	U	0.689	U	5	U
Toluene-D8	NA	1,000	750	NA		NA		44.7	J	NA		45.4		NA		45.3	
Trichloroethene (TCE)	NA	5	100	0.0495	U	0.06	J	1	UJ	0.0495	U	1	U	**44.1**		**31.3**	
Metals (ug/L)																	
Arsenic	72.3	10	100	NA		NA		5	U	NA		5	U	NA		5	U
Barium	929	2,000	1,000	NA		NA		277		NA		11		NA		11	
Chromium, total	234	100	50	NA		NA		5	U	NA		5	U	NA		5	U
Lead	19.9	15	50	NA		NA		**38**		NA		5	U	NA		5	U
Filtered Metals (ug/L)																	
Arsenic (Filtered)	35.4	10	100	R[7]		R[7]		5	U	R[7]		5	U	R[7]		5	U
Barium (Filtered)	85.2	2,000	1,000	R[7]		R[7]		6	J	R[7]		9	J	R[7]		9	J
Cadmium (Filtered)	7.4	5	10	R[7]		R[7]		1	UJ	R[7]		1	UJ	R[7]		1	UJ
Chromium, total (Filtered)	7.2	100	50	R[7]		R[7]		5	UJ	R[7]		5	UJ	R[7]		5	UJ
Selenium (Filtered)	85.3	50	50	R[7]		R[7]		10	UJ	R[7]		10	UJ	R[7]		10	UJ
Silver (Filtered)	6.7	–	50	R[7]		R[7]		2	UJ	R[7]		2	UJ	R[7]		2	UJ
Perchlorate (ug/L)																	
Perchlorate	NA	–	<24.5[6]	*110*		*130*		*600*	*U*	*130*		*600*	*U*	*130*		*750*	*U*
Other Compounds (mg/L)																	
TDS	NA	–	1,000	*107,000*		*110,000*		*131,000*		*106,000*		*112,000*		*124,000*		*141,000*	

Notes
(1) Radian, 1992 and 1993. Background provided for reference only.
(2) US EPA MCLs and NMGWQ standards are provided for refernce only since TDS exceeds 10,000 mg/L
(3) NMAC 20.6.2.3103
(4) Duplicate
(5) Total xylenes EPA MCL and NMGWQ Standard used as surrogate for m,p-Xylene
(6) Human Health Medium Specific Screening Levels 2007 (EPA Reg VI, 2007)
(7) Dissolved metals data rejected (see Section 4.7.4)

µg/L = micrograms per liter
mg/L = milligrams per liter
TDS = total dissolved solids
Val = analytical result
Q = data qualifier
J = positive detection, value between RL and the MDL
U = non-detect result
NA = not analyzed
– = not applicable; not detected
MDL = method detection limit
RL = reporting limit
U.S. EPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMGWQ = New Mexico Groundwater Quality
NMAC = New Mexico Administrative Code

Bolded value indicates analyte concentration exceeds U.S. EPA MCL
Italicized value indicates analyte concentration exceeds NMGWQ standard
Bolded and *italicized* value indicates analyte concentration exceeds U.S. EPA MCL and NMGWQ standard

Table 4.12 (continued)
Groundwater Analytical Results
SS-39 (SWMUs 165, 177, 179, and 181) – Missile Fuel Spill Area
Supplemental RFI and January 2007 Groundwater Compliance Long Term Monitoring
Holloman AFB, New Mexico

Analyte	Background [1]	U.S. EPA MCL [2]	NMGWQ Standard [2][3]	MW39-12			
				13/14-Jul-2006		18-Jan-2007	
				Val	Q	Val	Q
Volatile Organic Compounds (ug/L)							
1-Bromo-4-Fluorobenzene (4-Bromofluorobenzene)	NA	–	–	NA		42.3	
1,1-Dichloroethane	NA	–	25	0.0299	U	1	U
1,1-Dichloroethene	NA	7	5	0.0736	U	1	U
Acetone	NA	–	–	0.854	U	10	UJ
Benzene	NA	5	10	0.0495	U	1	U
Bromodichloromethane	NA	–	–	0.0651	U	1	U
Bromoform	NA	–	–	0.0859	U	1	U
Carbon tetrachloride	NA	5	10	0.121	U	1	U
Chlorobenzene	NA	100	–	0.0217	U	1	U
Chloroform	NA	–	100	0.0475	U	1	U
Chloromethane	NA	–	–	0.28	J	0.42	J
cis-1,2-Dichloroethene	NA	70	–	0.101	U	1	U
Dibromofluoromethane	NA	–	–	NA		53.8	
m,p-Xylene (sum of isomers)	NA	10,000 [5]	620 [5]	1	U	1	U
Methylene chloride	NA	–	100	0.689	U	5	U
Toluene-D8	NA	1,000	750	NA		45.4	
Trichloroethene (TCE)	NA	5	100	2.6		2.01	
Metals (ug/L)							
Arsenic	72.3	10	100	NA		5	U
Barium	929	2,000	1,000	NA		143	
Chromium, total	234	100	50	NA		5	U
Lead	19.9	15	50	NA		5	U
Filtered Metals (ug/L)							
Arsenic (Filtered)	35.4	10	100	R [7]		5	U
Barium (Filtered)	85.2	2,000	1,000	R [7]		9	J
Cadmium (Filtered)	7.4	5	10	R [7]		1	UJ
Chromium, total (Filtered)	7.2	100	50	R [7]		5	UJ
Selenium (Filtered)	85.3	50	50	R [7]		10	UJ
Silver (Filtered)	6.7	–	50	R [7]		2	UJ
Perchlorate (ug/L)							
Perchlorate	NA	–	<24.5 [6]	*110*		*750*	*U*
Other Compounds (mg/L)							
TDS	NA	–	1,000	*136,000*		*140,000*	

Notes
(1) Radian, 1992 and 1993. Background provided for reference only.
(2) US EPA MCLs and NMGWQ standards are provided for refernce only since TDS exceeds 10,000 mg/L
(3) NMAC 20.6.2.3103
(4) Duplicate
(5) Total xylenes EPA MCL and NMGWQ Standard used as surrogate for m,p-Xylene
(6) Human Health Medium Specific Screening Levels 2007 (EPA Reg VI, 2007)
(7) Dissolved metals data rejected (see Section 4.7.4)

µg/L = micrograms per liter
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TDS = total dissolved solids
Val = analytical result
Q = data qualifier
J = positive detection, value between RL and the MDL
U = non-detect result
NA = not analyzed
– = not applicable; not detected
MDL = method detection limit
RL = reporting limit
U.S. EPA = U.S. Environmental Protection Agency
MCL = Maximum Contaminant Level
NMGWQ = New Mexico Groundwater Quality
NMAC = New Mexico Administrative Code

Bolded value indicates analyte concentration exceeds U.S. EPA MCL
Italicized value indicates analyte concentration exceeds NMGWQ standard
Bolded and *italicized* value indicates analyte concentration exceeds U.S. EPA MCL and NMGWQ standard

HGL, Inc.

Photo Record - Supplemental RCRA Facility Investigation

SS-39 (SWMUs 165, 177, 179, AND 181) - MISSILE FUEL SPILL AREA

SITE LOCATION:
Holloman AFB, Alamogordo, NM

PROJECT:
AFC002-037

CLIENT: AFCEE

Photographer:
Sarah Gillette

Date:
June-06

Direction:
South-southeast

Photograph: SS39-01

Description:
Surface completion of monitoring well MW39-05

Photographer:
Sarah Gillette

Date:
September-06

Direction:
South-southeast

Photograph: SS39-02

Description:
View of the Lost River drainage basin when flooded (viewed from MW39-05)

Appendix A-7-1 (LF-40)

Portions of the:

Decision Document, Site LF-40, Causeway Rubble Disposal Site Holloman Air Force Base, New Mexico

EA Engineering, Science, and Technology, Inc., April 1993

File: 17BKW-40
R.L.
632

U.S. AIR FORCE
INSTALLATION RESTORATION PROGRAM

FOR

SITE LF-40, CAUSEWAY RUBBLE DISPOSAL SITE
HOLLOMAN AIR FORCE BASE, NEW MEXICO

DECISION DOCUMENT

April 1993

Prepared for

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT

and

HEADQUARTERS, AIR COMBAT COMMAND (HQ ACC/CEVR)
DIRECTORATE OF ENGINEERING AND SERVICES
LANGLEY AIR FORCE BASE, VA 23665

Prepared by

EA Engineering, Science, and Technology, Inc.
121 South 13th Street, Suite 701
Lincoln, NE 68508

Technical Document to Support Site Closeout

1. BASE/INSTALLATION/FACILITY

Holloman Air Force Base
Otero County, New Mexico

2. NAME AND LOCATION

Site LF-40, Causeway Rubble Disposal Site

3. STATEMENT OF BASIS

This site closeout decision is based on the following document which describes Site LF-40, Causeway Rubble Disposal Site (referred to therein as Site No. 40) conditions and potential impacts to public health and the environment.

* Installation Restoration Program, Records Search for Holloman Air Force Base, New Mexico. CH_2M Hill. August 1983.

4. DESCRIPTION OF SELECTED REMEDY

The Records Search results confirm that the site has been used for the disposal of concrete construction rubble but that no known or suspected hazardous waste materials have been associated with the rubble disposal or buried at the site. Available information indicates that the site does not present significant threat to human health or the environment. The No Action alternative is the selected remedy for Site LF-40.

5. DECLARATIONS

I have determined that the No Action alternative at Site LF-40 is a cost-effective remedy and provides adequate protection of public health, welfare, and the environment from releases of contaminants from past disposal practices. This determination is consistent with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the National Contingency Plan (40 CFR 300).

SITE: LF-40, Causeway Rubble Disposal Site
Holloman AFB, New Mexico

U.S. AIR FORCE

29 APR 93
Date

By: [signature]

Title: _____

NEW MEXICO ENVIRONMENT DEPARTMENT

April 27, 1993
Date

By: [signature]

Title: _____

U.S. ENVIRONMENTAL PROTECTION AGENCY

_____
Date

By: _____

Title: _____

APPENDIX B

SOIL BORING LOGS

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW01 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638636 Easting 390868	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 1.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 5.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW01	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, red, 2.5YR/5/6, plastic, soft, moist, (CL)					
1	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.1				
3						
4		4' PID:0.0		AOCU-GW01 (1415)		
5	End of Boring at 5'					
6						
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW01

HTW DRILLING LOG

HOLE NO. AOCU-GW02		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638700 Easting 391194	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 1.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW02	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, red, 2.5YR/5/6, plastic, soft, moist, (CL)					
1	Silty Sand, pinkish white, 2.5YR/8/2, fine grained, subangular, very loose, saturated, (SM)					
2		2' PID:0.2				
3	sulfur odor					
4		4' PID:0.1		AOCU-GW02 (1320)		
5						
6	End of Boring at 6'	6' PID:0.0				
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW02

HTW DRILLING LOG

HOLE NO. AOCU-GW03		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638889 Easting 391518	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 8.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW03	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, red, 2.5YR/5/6, plastic, soft, moist, (CL)					
1	Sand, pink, 2.5YR/8/3, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.0				
3						
4	sulfur odor	4' PID:0.2		AOCU-GW03 (1135)		
5						
6		6' PID:0.1				
7						
8	End of Boring at 8'	8' PID:0.0				
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW03

HTW DRILLING LOG

HOLE NO. AOCU-GW05		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638622 Easting 391480	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 7.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW05	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/3, plastic, soft, moist, (CL)					
1	Silty Sand, reddish gray, 2.5YR/6/1, fine grained, subangular, loose, moist, (SM)					
2		2' PID:0.1				
3	saturated					
4	sulfur odor	4' PID:0.1		AOCU-GW05 (1200)		
5						
6		6' PID:0.2				
7						
	End of Boring at 7.5'					
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW05

HTW DRILLING LOG

HOLE NO. AOCU-GW07		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 2 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638771 Easting 391796	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 8.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 11.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW07	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2	Silty Sand, reddish gray, 2.5YR/5/1, fine grained, subangular, loose to very loose, (SM)	2' PID:0.0				
3						
4		4' PID:0.1				
5						
6		6' PID:0.2				
7						
8	sulfur odor	8' PID:0.2		AOCU-GW07 (1030)		
9						
10		10' PID:0.1				

	Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW07

HTW DRILLING LOG

HOLE NO. AOCU-GW07

PROJECT: AOC-U (Lost River Basin) RFI

INSPECTOR: D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11	End of Boring at 11'					
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

HOLE NO. AOCU-GW08		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 2 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638659 Easting 391786	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 5-Mar-11	11.DATE COMPLETED 5-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 13.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW08	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1	Sand, reddish gray, 2.5YR/5/1, fine grained, subangular, loose to very loose, (SM)					
2		2' PID:0.2				
3						
4		4' PID:0.0				
5						
6	sulfur odor	6' PID:0.1				
7						
8		8' PID:0.0		AOCU-GW08 (1010)		
9						
10		10' PID:0.2				

	Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW08

HTW DRILLING LOG

HOLE NO. AOCU-GW08

PROJECT: AOC-U (Lost River Basin) RFI

INSPECTOR: D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12		12' PID:0.0				
	13	End of Boring at 13'					
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW10 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638445 Easting 391850	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW10	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, reddish brown, 2.5YR/7/6, fine grained sand, subangular, plastic, soft, moist, (SW-SC)					
1						
2	Sand, light reddish brown, 2.5YR/7/4, fine grained, subangular, loose to very loose, moist to saturated, (SW)	2' PID:0.1				
3						
4	sulfur odor	4' PID:0.1		AOCU-GW10 (1415)		
5						
6	End of Boring at 6.0'	6' PID:0.2				
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW10

HTW DRILLING LOG

HOLE NO. AOCU-GW12		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638297 Easting 392017	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW12	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, light red, 2.5YR/7/6, fine grained sand, subangular, plastic, soft, moist, (SW-SC)					
1	Sand, light reddish brown, 2.5YR/7/4, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.0				
3						
4		4' PID:0.0		AOCU-GW12 (1310)		
5						
6	End of Boring at 6.0'	6' PID:0.1				
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW12

HTW DRILLING LOG

HOLE NO. AOCU-GW15		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638323 Easting 392284	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 5.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 10.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW15	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.2				
	Silty Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
3						
4		4' PID:0.1		AOCU-GW15 (1530)		
5	saturated					
6		6' PID:0.0				
7						
8		8' PID:0.3				
9						
10	End of Boring at 10.0'	10' PID:0.1				

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW15

HTW DRILLING LOG

HOLE NO. AOCU-GW17		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 2 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638508 Easting 392296	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 12.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 13.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW17	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2	Silty Sand, light reddish brown, 2.5YR/7/3, fine grained, subangular, loose to very loose, (SM)	2' PID:0.0				
3						
4		4' PID:0.2				
5						
6		6' PID:0.0				
7						
8		8' PID:0.2		AOCU-GW17 (1345)		
9						
10		10' PID:0.1				

HTW DRILLING LOG

HOLE NO. AOCU-GW17

PROJECT: AOC-U (Lost River Basin) RFI

INSPECTOR: D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12		12' PID:0.2				
	13	End of Boring at 13'					
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

HOLE NO. AOCU-GW19		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 2 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3638704 Easting 392310	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 4-Mar-11	11.DATE COMPLETED: 4-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 7.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 12.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW19	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, light reddish brown, 2.5YR/6/3, fine grained sand, subangular, plastic, soft, moist, (SW-SC)					
1						
2	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, (SW)	2' PID:0.2				
3						
4		4' PID:0.0				
5						
6		6' PID:0.1				
7						
8		8' PID:0.1		AOCU-GW19 (0920)		
9						
10		10' PID:0.0				

	Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW19

HTW DRILLING LOG

HOLE NO. AOCU-GW19

PROJECT: AOC-U (Lost River Basin) RFI

INSPECTOR: D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11						
	12	End of Boring at 12'	12' PID:0.1				
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

HOLE NO. AOCU-GW20		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638869 Easting 391943	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 8.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW20	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.0				
	Silty Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
3						
4	saturated	4' PID:0.2		AOCU-GW20 (0945)		
5						
6		6' PID:0.1				
7						
8		8' PID:0.0				
	End of Boring at 8.0'					
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW20

HTW DRILLING LOG

HOLE NO. AOCU-GW22		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638797 Easting 392155	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 8.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW22	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.1				
	Silty Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, saturated, (SM)					
3						
4		4' PID:0.0		AOCU-GW22 (1045)		
5						
6		6' PID:0.1				
7						
8	End of Boring at 8.0'	8' PID:0.1				
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW22

HTW DRILLING LOG

HOLE NO. AOCU-GW24		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638799 Easting 392336	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 4-Mar-11	11.DATE COMPLETED 4-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW24 AOCU-GW24-A	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.0				
	Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, saturated, (SW)					
3						
4		4' PID:0.2		AOCU-GW24 AOCU-GW24-A (1050)		
5						
6		6' PID:0.0				
	End of Boring at 6.0'					
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO.	AOCU-GW26
1.COMPANY NAME	NationView, LLC.
2.DRILLING CONTRACTOR	NationView, LLC.
SHEET	1 OF 1 SHEETS
3.PROJECT	AOC-U (Lost River Basin) RFI
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	D. McNeil / Z. Beck / C. McGriff / D. Berry
6.MANUFACTURER'S DESIGNATION OF DRILL	AMS® Hand Auger
7.SIZES AND TYPE OF DRILLING EQUIPMENT	3.5" Outer Diameter Hand-Auger
8.HOLE LOCATION	Northing 3638782 Easting 392515
9.SURFACE ELEVATION (FT. NAVD88)	NA
10.DATE STARTED	3-Mar-11
11.DATE COMPLETED	3-Mar-11
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	2.0
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	6.0
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW26 -MS, -MSD	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1	Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, saturated, (SW)					
2		2' PID:0.2				
3						
4		4' PID:0.2		AOCU-GW26 AOCU-GW26-MS AOCU-GW-26-MSD (1305)		
5						
6	End of Boring at 6.0'	6' PID:0.1				
7						
8						
9						
10						

Project	AOC-U (Lost River Basin) RFI
HOLE NO.	AOCU-GW26

HTW DRILLING LOG

HOLE NO.	AOCU-GW28
1.COMPANY NAME	NationView, LLC.
2.DRILLING CONTRACTOR	NationView, LLC.
SHEET	1 OF 1 SHEETS
3.PROJECT	AOC-U (Lost River Basin) RFI
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	D. McNeil / Z. Beck / C. McGriff / D. Berry
6.MANUFACTURER'S DESIGNATION OF DRILL	AMS® Hand Auger
7.SIZES AND TYPE OF DRILLING EQUIPMENT	3.5" Outer Diameter Hand-Auger
8.HOLE LOCATION	Northing 3638745 Easting 392707
9.SURFACE ELEVATION (FT. NAVD88)	NA
10.DATE STARTED	3-Mar-11
11.DATE COMPLETED	3-Mar-11
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	1.5
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	5.0
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW28	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1	Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.1				
3						
4		4' PID:0.0		AOCU-GW28 (1420)		
5	End of Boring at 5.0'					
6						
7						
8						
9						
10						

Project	AOC-U (Lost River Basin) RFI
HOLE NO.	AOCU-GW28

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW32 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638373 Easting 392482	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW32	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X			Dustin McNeil		

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.0				
3						
4		4' PID:0.2		AOCU-GW32 (1345)		
	Silty Sand, reddish gray, 2.5YR/6/1, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
5						
6	sulfur odor	6' PID:0.0				
7						
8		8' PID:0.1				
9						
	End of Boring at 9.5'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW32

HTW DRILLING LOG

HOLE NO. AOCU-GW35		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638305 Easting 392854	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW35 AOCU-GW35-A	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.2				
	Silty Sand, light reddish brown, 2.5YR/6/1, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
3						
4	saturated	4' PID:0.0		AOCU-GW35 AOCU-GW35-A (1445)		
5						
6		6' PID:0.1				
7						
8		8' PID:0.2				
9	End of Boring at 9.0'					
10						

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW39 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638579 Easting 393016	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW39	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/7/3, fine grained, subangular, loose, moist, (SW)					
1						
2		2' PID:0.1				
	Silty Sand, light reddish brown, 2.5YR/6/1, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
3						
4	saturated	4' PID:0.1		AOCU-GW39 (1015)		
5						
6		6' PID:0.2				
7						
8		8' PID:0.0				
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW39

HTW DRILLING LOG

HOLE NO. AOCU-GW41		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638712 Easting 392895	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW41	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, dark reddish brown, 2.5YR/3/4, plastic, soft, moist,(CL)					
1						
2		2' PID:0.0				
	Sand, light reddish brown, 2.5YR/6/1, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
3						
4	saturated	4' PID:0.0		AOCU-GW41 (0900)		
5						
6		6' PID:0.1				
7						
8		8' PID:0.1				
9	End of Boring at 9.0'					
10						

	Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW41

HTW DRILLING LOG

HOLE NO. AOCU-GW43		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 2 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638824 Easting 393013	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 6.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 10.75	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW43	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, light reddish brown, 2.5YR/6/3, fine grained sand, subangular, plastic, soft, moist, (SW-SC)					
1	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, (SW)					
2		2' PID:0.0				
3						
4		4' PID:0.0				
5						
6		6' PID:0.1				
7						
8		8' PID:0.2		AOCU-GW43 (0955)		
9						
10		10' PID:0.1				

	Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW43

HTW DRILLING LOG

HOLE NO. AOCU-GW43

PROJECT AOC-U (Lost River Basin) RFI

INSPECTOR D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11	End of Boring at 10.75'					
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

HOLE NO. AOCU-GW45		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638871 Easting 393104	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 3-Mar-11	11.DATE COMPLETED 3-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW45	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, reddish brown, 2.5YR/5/4, fine grained sand, subangular, plastic, soft, moist,(SW-SC)					
1	Sand, light reddish brown, 2.5YR/6/1, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.1				
	saturated					
3						
4		4' PID:0.2		AOCU-GW45 (0850)		
5						
6	End of Boring at 6.0'	6' PID:0.2				
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW47		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3638930 Easting 393302	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 2-Mar-11	11.DATE COMPLETED: 2-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 7.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW47 AOCU-GW47-A	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, light reddish brown, 2.5YR/7/3, fine grained sand, subangular, plastic, soft, moist,(SM)					
1						
2		2' PID:0.2				
	Silty Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose to very loose, saturated, (SM)					
3						
4		4' PID:0.1		AOCU-GW47 AOCU-GW47-A (1430)		
5						
6		6' PID:0.1				
7	End of Boring at 7.0'					
8						
9						
10						

Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW47

HTW DRILLING LOG

HOLE NO. AOCU-GW50		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3639155 Easting 393554	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 2-Mar-11	11.DATE COMPLETED: 2-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 3.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 8.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW50	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, light reddish brown, 2.5YR/7/3, fine grained sand, subangular, plastic, soft, moist,(SM)					
1						
2		2' PID:0.1				
3	Silty Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose to very loose, saturated, (SM)					
4		4' PID:0.0		AOCU-GW50 (1330)		
5						
6		6' PID:0.2				
7						
8	End of Boring at 8.0'	8' PID:0.2				
9						
10						

	Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW50

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW52 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638598 Easting 393195	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 2-Mar-11	11.DATE COMPLETED 2-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 5.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW52 -MS, -MSD	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, light reddish brown, 2.5YR/7/3, fine grained sand, subangular, plastic, soft, moist,(SW-SC)					
1	Silty Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose to very loose, moist, (SM)					
2		2' PID:0.2				
3						
4		4' PID:0.1		AOCU-GW52 AOCU-GW52-MS AOCU-GW52-MSD (1415)		
5	saturated					
6		6' PID:0.2				
7	Sandy Clay, light reddish brown, 2.5YR/7/3, fine grained, subangular, plastic, soft, saturated, (SW-SC)					
8		8' PID:0.0				
9	End of Boring at 9.0'					
10						

	Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW52

HTW DRILLING LOG

HOLE NO. AOCU-GW54		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638614 Easting 393393	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 2-Mar-11	11.DATE COMPLETED 2-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW54	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/4/4, plastic, soft, moist,(CL)					
1	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
2		2' PID:0.0				
3	saturated					
4		4' PID:0.1		AOCU-GW54 (1310)		
5						
6	End of Boring at 6.0'	6' PID:0.0				
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW56		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638681 Easting 393633	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 2-Mar-11	11.DATE COMPLETED 2-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW56	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
1						
2		2' PID:0.2				
3	saturated					
4		4' PID:0.2		AOCU-GW56 (1040)		
5						
6	End of Boring at 6.0'	6' PID:0.1				
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW57		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3638822 Easting 393678	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 2-Mar-11	11.DATE COMPLETED 2-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW57	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
1						
2	saturated	2' PID:0.1				
3						
4		4' PID:0.0		AOCU-GW57 (1000)		
5						
6	End of Boring at 6.0'	6' PID:0.0				
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW59		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3639046 Easting 393714	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 2-Mar-11	11.DATE COMPLETED 2-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW59	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
1						
2	saturated	2' PID:0.0				
3						
4		4' PID:0.2		AOCU-GW59 (0915)		
5						
6	End of Boring at 6.0'	6' PID:0.1				
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW59

HTW DRILLING LOG

HOLE NO. AOCU-GW64		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3639315 Easting 393916	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 2-Mar-11	11.DATE COMPLETED: 2-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 8.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW64	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
1						
2	saturated	2' PID:0.2				
	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose to very loose, saturated, (SW)					
3						
4		4' PID:0.1		AOCU-GW64 (0930)		
5						
6		6' PID:0.0				
7						
8	End of Boring at 8.0'	8' PID:0.2				
9						
10						

Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW64

HTW DRILLING LOG

HOLE NO. AOCU-GW66		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3639253 Easting 394199	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 2-Mar-11	11.DATE COMPLETED: 2-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 7.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW66	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose to very loose, moist to saturated, (SM)					
1						
2	saturated	2' PID:0.1				
	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose to very loose, saturated, (SW)					
3						
4		4' PID:0.0		AOCU-GW66 (1030)		
5						
6		6' PID:0.2				
7	End of Boring at 7.0'					
8						
9						
10						

Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW66

HTW DRILLING LOG

HOLE NO. AOCU-GW68		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3639487 Easting 394283	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 1-Mar-11	11.DATE COMPLETED: 1-Mar-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 4.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 7.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW68	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Clay, reddish brown, 2.5YR/4/4, plastic, soft, moist, (CL)					
1						
2		2' PID:0.0				
	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose to very loose, moist to saturated, (SW)					
3						
4	saturated	4' PID:0.0		AOCU-GW68 (1530)		
5						
6		6' PID:0.1				
7	End of Boring at 7.0'					
8						
9						
10						

Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW68

HTW DRILLING LOG

HOLE NO. AOCU-GW69		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3639610 Easting 394315	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 4.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS:	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
AOCU-GW69 AOCU-GW69-A	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
	X			Dustin McNeil		

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/7/4, fine grained, subangular, loose, moist, (SW)					
1						
2		2' PID:0.2				
	Sand, light reddish brown, 2.5YR/6/3, fine grained, subangular, dense, moist to saturated, (SW)					
3						
4		4' PID:0.1		AOCU-GW69 AOCU-GW69-A (1250)		
	End of Boring at 4.5'					
5						
6						
7						
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW71		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3639993 Easting 394482	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 5.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW71	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sandy Clay, light reddish brown, 2.5YR/6/3, fine grained, subangular, plastic, soft, moist, (SW-SC)					
1						
2	Sandy Clay, dark reddish gray, 2.5YR/4/1, fine grained, subangular, plastic, medium, moist to saturated, (SW-SC)	2' PID:0.0				
3						
4		4' PID:0.1		AOCU-GW71 (1420)		
5	End of Boring at 5.5'					
6						
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW71

HTW DRILLING LOG

HOLE NO. AOCU-GW72		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640195 Easting 394610	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW72	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/5/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2	Silty Clay, light reddish brown, 2.5YR/6/3, plastic, soft, moist to saturated, (SP-SC)	2' PID:0.2				
3						
4		4' PID:0.2		AOCU-GW72 (1400)		
5						
6	End of Boring at 6.0'	6' PID:0.1				
7						
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW72

HTW DRILLING LOG

HOLE NO. AOCU-GW73		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640409 Easting 394863	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 6.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW73	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/5/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2		2' PID:0.0				
3						
4	Silty Sand, light reddish brown, 2.5YR/6/4, plastic, soft, moist to saturated, (SM)	4' PID:0.1		AOCU-GW73 (1300)		
5						
6	saturated	6' PID:0.1				
7						
8		8' PID:0.2				
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW73

HTW DRILLING LOG

HOLE NO. AOCU-GW75		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640629 Easting 395479	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW75, AOCU-GW75-A	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, reddish brown, 2.5YR/5/4, fine grained, subangular, loose, moist, (SW)					
1						
2		2' PID:0.2				
	Sand, pinkish white, 2.5YR/8/2, fine grained, subangular, gypsum crystal inclusions, dense, moist, (SW)					
3						
	Sand, dusky red, 2.5YR/3/2, fine grained, subangular, very loose, moist to saturated, (SW)					
4		4' PID:0.0		AOCU-GW75 AOCU-GW-75-A (1515)		
5						
6		6' PID:0.2				
7						
8		8' PID:0.0				
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW75

HTW DRILLING LOG

HOLE NO. AOCU-GW77		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640681 Easting 396003	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 8.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW77	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist to saturated, (SW)					
1						
2		2' PID:0.1				
3	saturated					
4	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, moist to saturated, (SW)	4' PID:0.1		AOCU-GW77 (1410)		
5						
6		6' PID:0.0				
7						
8	End of Boring at 8.5'	8' PID:0.1				
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW78		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3640837 Easting 395988	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 28-Feb-11	11.DATE COMPLETED: 28-Feb-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 4.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 8.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW78	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist, (SW)					
1						
2		2' PID:0.2				
3						
4	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, moist to saturated, (SW)	4' PID:0.0		AOCU-GW78 (1320)		
5						
6		6' PID:0.1				
7						
8	End of Boring at 8.5'	8' PID:0.0				
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW80		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3641160 Easting 396463	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 8.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW80	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist, (SW)					
1						
2	saturated	2' PID:0.2				
3						
4	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, saturated, (SW)	4' PID:0.0		AOCU-GW80 (1100)		
5						
6		6' PID:0.1				
7						
8		8' PID:0.0				
	End of Boring at 8.5'					
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW80

HTW DRILLING LOG

HOLE NO. AOCU-GW82		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3641007 Easting 396563	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.75	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW82	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist to saturated, (SW)					
1						
2		2' PID:0.1				
	saturated					
3						
	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, saturated, (SW)					
4		4' PID:0.1		AOCU-GW82 (1015)		
5						
6		6' PID:0.0				
7						
8		8' PID:0.2				
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW82

HTW DRILLING LOG

HOLE NO. AOCU-GW83		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3641567 Easting 396747	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.75	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 7.75	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW83	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist to saturated, (SW)					
1						
2		2' PID:0.1				
	saturated					
3						
	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, saturated, (SW)					
4		4' PID:0.1		AOCU-GW83 (0920)		
5						
6		6' PID:0.0				
7						
	End of Boring at 7.75'					
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW83

HTW DRILLING LOG

HOLE NO.	AOCU-GW84
1.COMPANY NAME	NationView, LLC.
2.DRILLING CONTRACTOR	NationView, LLC.
SHEET	1 OF 2 SHEETS
3.PROJECT	AOC-U (Lost River Basin) RFI
4.LOCATION	Holloman Air Force Base, New Mexico
5.NAME OF DRILLER	D. McNeil / Z. Beck / C. McGriff / D. Berry
6.MANUFACTURER'S DESIGNATION OF DRILL	AMS® Hand Auger
7.SIZES AND TYPE OF DRILLING EQUIPMENT	3.5" Outer Diameter Hand-Auger
8.HOLE LOCATION	Northing 3640685 Easting 396609
9.SURFACE ELEVATION (FT. NAVD88)	NA
10.DATE STARTED	1-Mar-11
11.DATE COMPLETED	1-Mar-11
12.OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs)	11.0
13.DEPTH DRILLED INTO ROCK	NA
16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED	NA
14.TOTAL DEPTH OF HOLE (ft bgs)	12.0
17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW84	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Clay, light reddish brown, 2.5YR/6/3, plastic, soft, moist to saturated, (SP-SC)					
1						
2		2' PID:0.2				
3						
4		4' PID:0.2				
5	Silty Clay, dark reddish brown, 2.5YR/3/4, plastic, soft, moist, (SP-SC)					
6		6' PID:0.0				
7						
8		8' PID:0.1		AOCU-GW84 (0920)		
9						
10		10' PID:0.2				

Project	AOC-U (Lost River Basin) RFI
HOLE NO.	AOCU-GW84

HTW DRILLING LOG

HOLE NO. AOCU-GW84

PROJECT: AOC-U (Lost River Basin) RFI

INSPECTOR: D. McNeil

SHEET 2 OF 2 SHEETS

Elev.	Depth.	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
	10	Same as above					
	11	saturated					
			12' PID:0.0				
	12	End of Boring at 12.0'					
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25						

HTW DRILLING LOG

1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	HOLE NO. AOCU-GW86 SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640531 Easting 396510	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 3.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW86	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Sand, light reddish brown, 2.5YR/6/4, fine grained, subangular, loose, moist, (SW)					
1						
2		2' PID:0.0				
3	hardpan sand with gypsum crystals					
4	Sand, pale red, 2.5YR/7/2, fine grained, subangular, loose, saturated, (SW)	4' PID:0.2		AOCU-GW86 (1055)		
5						
6		6' PID:0.1				
7						
8						
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW86

HTW DRILLING LOG

HOLE NO. AOCU-GW89		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640429 Easting 396822	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 7.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19.TOTAL NUMBER OF CORE BOXES
	-	-	-

20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW89	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA

22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	X			Dustin McNeil

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2		2' PID:0.1				
	Silty Clay, light reddish brown, 2.5YR/6/3, plastic, soft, moist, (SP-SC)					
3						
4		4' PID:0.1		AOCU-GW89 (0900)		
	saturated					
5						
6		6' PID:0.2				
	Clay, reddish brown, 2.5YR/4/4, plastic, soft, moist, (CL)					
7						
	End of Boring at 7.5'					
8						
9						
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW91		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640410 Easting 396889	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 1-Mar-11	11.DATE COMPLETED 1-Mar-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 4.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW91	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2	Silty Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist, (SP-SC)	2' PID:0.2				
3						
4	saturated	4' PID:0.0		AOCU-GW91 (1000)		
5						
6		6' PID:0.2				
7	Clay, reddish brown, 2.5YR/4/4, plastic, medium, moist, (CL)					
8		8' PID:0.0				
9	End of Boring at 9.0'					
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW91

HTW DRILLING LOG

HOLE NO. AOCU-GW93		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640387 Easting 397175	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 2.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 6.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW93	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2	Silty Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist to saturated, (SP-SC)	2' PID:0.1				
3						
4		4' PID:0.1		AOCU-GW93 (1200)		
5						
6		6' PID:0.0				
	End of Boring at 6.5'					
7						
8		8' PID:0.2				
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW93

HTW DRILLING LOG

HOLE NO. AOCU-GW96		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640350 Easting 397468	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 1.5	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 7.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW96	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	Dustin McNeil	
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1	saturated					
2	Silty Clay, reddish brown, 2.5YR/5/4, plastic, soft, saturated, (SP-SC)	2' PID:0.1				
3						
4		4' PID:0.1		AOCU-GW96 (1030)		
5						
6		6' PID:0.0				
7	End of Boring at 7.0'					
8						
9						
10						

Project AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW96

HTW DRILLING LOG

HOLE NO. AOCU-GW98		
1.COMPANY NAME NationView, LLC.	2.DRILLING CONTRACTOR NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT AOC-U (Lost River Basin) RFI	4.LOCATION Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION Northing 3640584 Easting 397134	
	9.SURFACE ELEVATION (FT. NAVD88) NA	
	10.DATE STARTED 28-Feb-11	11.DATE COMPLETED 28-Feb-11
12.OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs) 6.0	
13.DEPTH DRILLED INTO ROCK NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED NA	
14.TOTAL DEPTH OF HOLE (ft bgs) 9.0	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW98 -MS, -MSD	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2	Silty Clay, reddish brown, 2.5YR/5/4, plastic, soft, moist to saturated, (SP-SC)	2' PID:0.0				
3						
4		4' PID:0.0		AOCU-GW98 AOCU-GW98-MS AOCU-GW98-MSD (1500)		
5						
6	saturated	6' PID:0.0				
7						
8						
9	End of Boring at 9.0'					
10						

HTW DRILLING LOG

HOLE NO. AOCU-GW100		
1.COMPANY NAME: NationView, LLC.	2.DRILLING CONTRACTOR: NationView, LLC.	SHEET 1 OF 1 SHEETS
3.PROJECT: AOC-U (Lost River Basin) RFI	4.LOCATION: Holloman Air Force Base, New Mexico	
5.NAME OF DRILLER: D. McNeil / Z. Beck / C. McGriff / D. Berry	6.MANUFACTURER'S DESIGNATION OF DRILL: AMS® Hand Auger	
7.SIZES AND TYPE OF DRILLING EQUIPMENT: 3.5" Outer Diameter Hand-Auger	8.HOLE LOCATION: Northing 3640291 Easting 397811	
	9.SURFACE ELEVATION (FT. NAVD88): NA	
	10.DATE STARTED: 28-Feb-11	11.DATE COMPLETED: 28-Feb-11
12.OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED (ft bgs): 2.0	
13.DEPTH DRILLED INTO ROCK: NA	16.DEPTH TO WATER (btoc) & TIME ELAPSED AFTER DRILLING COMPLETED: NA	
14.TOTAL DEPTH OF HOLE (ft bgs): 6.5	17.OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18.GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19.TOTAL NUMBER OF CORE BOXES	
	-		-		-	
20.SAMPLES FOR CHEMICAL ANALYSIS: AOCU-GW100	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	8260B	6010B/7471A	TPH-8015B	SVOC-8270C	Perchlorate, Nitrate, TDS	NA
22.DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: Dustin McNeil		
	X					

Depth	Description of Materials	Field Screening Results (ppm)	Geotech Sample or Box number	Analytical Sample Number	Blow Counts	Remarks
0	Silty Sand, reddish brown, 2.5YR/4/3, fine grained, subangular, plastic, soft, moist, (SM)					
1						
2	Silty Clay, reddish brown, 2.5YR/5/4, plastic, soft, saturated, (SP-SC)	2' PID:0.2				
3						
4		4' PID:0.1		AOCU-GW100 (0915)		
5						
6	End of Boring at 6.5'	6' PID:0.1				
7						
8						
9						
10						

Project: AOC-U (Lost River Basin) RFI	HOLE NO. AOCU-GW100

APPENDIX C

ANALYTICAL DATA PACKAGES
(PROVIDED ON ENCLOSED CD)

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 04/04/2011

GCAL Report 211030216

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Customer NationView LLC

Project AOC-U RFI Investigarion

CASE NARRATIVE

Client: NationView LLC **Report:** 211030216

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 04/04/11. The data was revised to include estimated values in the report.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 451797, the MS/MSD exhibited recovery failures. The LCS and/or LCSD recoveries are above the upper control limit for Acrylonitrile. This compound was not detected in the associated samples. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples. Acrylonitrile exhibited a % D value greater than 40 in the CCV and ICV. Acrylonitrile was not detected in any samples.

SEMI-VOLATILES MASS SPECTROMETRY

2,4-Dinitrophenol was recovered high in the ICV at 121%. There are no hits for 2,4-Dinitrophenol in any of the associated samples.

In the SW-846 8270C analysis, sample 21103021614 (AOCU-GW91) had one surrogate recovery outside control limits in the base-neutral fraction.

METALS

In the SW-846 6010B Dissolved analysis, samples 21103021621 (AOCU-GW77), 21103021622 (AOCU-GW78), 21103021624 (AOCU-GW82), 21103021625 (AOCU-GW83), 21103021631 (AOCU-GW100), 21103021623 (AOCU-GW80), 21103021626 (AOCU-GW93), 21103021628 (AOCU-GW98), 21103021629 (AOCU-GW98-MS), 21103021630 (AOCU-GW98-MSD), 21103021627 (AOCU-GW96), 21103021619 (AOCU-GW75), 21103021620 (AOCU-GW75A), 21103021632 (AOCU-GW84), 21103021634 (AOCU-GW89) and 21103021633 (AOCU-GW86) had to be diluted in order to bracket the concentration of a target analyte within the linear dynamic range of the instrument.

In the SW-846 6010B Dissolved analysis, sample 21103021635 (AOCU-GW91) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103021621 (AOCU-GW77), 21103021622 (AOCU-GW78), 21103021623 (AOCU-GW80), 21103021624 (AOCU-GW82), 21103021625 (AOCU-GW83), 21103021626 (AOCU-GW93), 21103021627 (AOCU-GW96), 21103021631 (AOCU-GW100), 21103021628 (AOCU-GW98), 21103021629 (AOCU-GW98-MS), 21103021630 (AOCU-GW98-MSD), 21103021619 (AOCU-GW75), 21103021620 (AOCU-GW75A), 21103021632 (AOCU-GW84), 21103021633 (AOCU-GW86), 21103021634 (AOCU-GW89) and 21103021635 (AOCU-GW91). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 451633, the MS and/or MSD recovery is outside the control limits for Vanadium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 94%. The MS/MSD recoveries are not applicable for Calcium,

Magnesium and Sodium because the sample concentration is greater than four times the spike concentration. Calcium, Barium and Sodium were detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated sample(s).

In the SW-846 6010B Dissolved analysis for prep batch 451727, the MS and/or MSD recoveries are outside the control limits for Thallium and Vanadium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 995% for Thallium and 92% for Vanadium. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration. Calcium, Barium, Magnesium, Manganese and Silver were detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated sample(s). Chromium was recovered outside of the established control limits for the LCS and/or LCSD.

In the SW-846 7470A analysis for prep batch 451729, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21103021102 (AOCU-GW100), 21103021104 (AOCU-GW82), 21103021107 (AOCU-GW80), 21103021108 (AOCU-GW93), 21103021601 (AOCU-GW77), 21103021602 (AOCU-GW78), 21103021605 (AOCU-GW75), 21103021607 (AOCU-GW98), 21103021609 (AOCU-GW98-MS), 21103021610 (AOCU-GW98-MSD), 21103021613 (AOCU-GW89), 21103021614 (AOCU-GW91), 21103021616 (AOCU-GW86) and 21103021617 (AOCU-GW84) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SM 2540 C analysis, samples 21103021102 (AOCU-GW100), 21103021104 (AOCU-GW82), 21103021107 (AOCU-GW80), 21103021108 (AOCU-GW93), 21103021601 (AOCU-GW77), 21103021602 (AOCU-GW78), 21103021605 (AOCU-GW75), 21103021607 (AOCU-GW98), 21103021609 (AOCU-GW98-MS), 21103021610 (AOCU-GW98-MSD), 21103021611 (AOCU-GW98-DUP), 21103021613 (AOCU-GW89), 21103021614 (AOCU-GW91), 21103021616 (AOCU-GW86) and 21103021617 (AOCU-GW84) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

In the EPA 353.2 analysis for analytical batch 451624, the MS/MSD recovery was outside the control limits for Nitrate. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211030216

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	AOCU-GW96	Water	02/28/2011 10:30	03/02/2011 09:20
21103021102	AOCU-GW100	Water	02/28/2011 09:15	03/02/2011 09:20
21103021103	TRIP BLANK	Water	02/28/2011 09:15	03/02/2011 09:20
21103021104	AOCU-GW82	Water	02/28/2011 10:15	03/02/2011 09:20
21103021105	AOCU-GW83	Water	02/28/2011 09:20	03/02/2011 09:20
21103021106	TRIP BLANK	Water	02/28/2011 09:20	03/02/2011 09:20
21103021107	AOCU-GW80	Water	02/28/2011 11:00	03/02/2011 09:20
21103021108	AOCU-GW93	Water	02/28/2011 12:00	03/02/2011 09:20
21103021109	TRIP BLANK	Water	02/28/2011 11:00	03/02/2011 09:20
21103021601	AOCU-GW77	Water	02/28/2011 14:10	03/02/2011 09:20
21103021602	AOCU-GW78	Water	02/28/2011 13:20	03/02/2011 09:20
21103021603	TRIP BLANK	Water	02/28/2011 13:20	03/02/2011 09:20
21103021604	AOCU-GW75A	Water	02/28/2011 15:15	03/02/2011 09:20
21103021605	AOCU-GW75	Water	02/28/2011 15:15	03/02/2011 09:20
21103021606	TRIP BLANK	Water	02/28/2011 15:15	03/02/2011 09:20
21103021607	AOCU-GW98	Water	02/28/2011 15:00	03/02/2011 09:20
21103021608	TRIP BLANK	Water	02/28/2011 15:00	03/02/2011 09:20
21103021609	AOCU-GW98-MS	Water	02/28/2011 15:00	03/02/2011 09:20
21103021610	AOCU-GW98-MSD	Water	02/28/2011 15:00	03/02/2011 09:20
21103021611	AOCU-GW98-DUP	Water	02/28/2011 15:00	03/02/2011 09:20
21103021612	TRIP BLANK	Water	02/28/2011 15:00	03/02/2011 09:20
21103021613	AOCU-GW89	Water	03/01/2011 09:00	03/02/2011 09:20
21103021614	AOCU-GW91	Water	03/01/2011 10:00	03/02/2011 09:20
21103021615	TRIP BLANK	Water	03/01/2011 09:00	03/02/2011 09:20
21103021616	AOCU-GW86	Water	03/01/2011 10:55	03/02/2011 09:20
21103021617	AOCU-GW84	Water	03/01/2011 09:20	03/02/2011 09:20
21103021618	TRIP BLANK	Water	03/01/2011 09:20	03/02/2011 09:20
21103021619	AOCU-GW75-M	Water	02/28/2011 15:16	03/02/2011 09:20
21103021620	AOCU-GW75A-M	Water	02/28/2011 15:16	03/02/2011 09:20
21103021621	AOCU-GW77-M	Water	02/28/2011 14:11	03/02/2011 09:20
21103021622	AOCU-GW78-M	Water	02/28/2011 13:21	03/02/2011 09:20
21103021623	AOCU-GW80-M	Water	02/28/2011 11:01	03/02/2011 09:20
21103021624	AOCU-GW82-M	Water	02/28/2011 10:16	03/02/2011 09:20
21103021625	AOCU-GW83-M	Water	02/28/2011 09:21	03/02/2011 09:20
21103021626	AOCU-GW93-M	Water	02/28/2011 12:01	03/02/2011 09:20
21103021627	AOCU-GW96-M	Water	02/28/2011 10:31	03/02/2011 09:20
21103021628	AOCU-GW98-M	Water	02/28/2011 15:01	03/02/2011 09:20
21103021629	AOCU-GW98-M-MS	Water	02/28/2011 15:01	03/02/2011 09:20
21103021630	AOCU-GW98-M-MSD	Water	02/28/2011 15:01	03/02/2011 09:20
21103021631	AOCU-GW100-M	Water	02/28/2011 09:16	03/02/2011 09:20
21103021632	AOCU-GW84-M	Water	03/01/2011 09:21	03/03/2011 08:50
21103021633	AOCU-GW86-M	Water	03/01/2011 10:56	03/03/2011 08:50
21103021634	AOCU-GW89-M	Water	03/01/2011 09:01	03/03/2011 08:50
21103021635	AOCU-GW91-M	Water	03/01/2011 10:01	03/03/2011 08:50

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	**AOCU-GW96**	Water	02/28/2011 10:30	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 17:52	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**4.60J**	**25**	**0.322**	**ug/L**
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	**AOCU-GW96**	Water	02/28/2011 10:30	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 17:52	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 17:52	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	**AOCU-GW96**	Water	02/28/2011 10:30	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 09:48	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	**Bis(2-Ethylhexyl)phthalate**	**3.94J**	**10.0**	**0.191**	**ug/L**
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	**Di-n-butyl phthalate**	**0.303J**	**10.0**	**0.189**	**ug/L**
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	**Fluorene**	**0.642J**	**10.0**	**0.288**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	**AOCU-GW96**	Water	02/28/2011 10:30	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 09:48	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	**Phenanthrene**	**1.14J**	**10.0**	**0.304**	**ug/L**
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	**Pyrene**	**0.563J**	**10.0**	**0.486**	**ug/L**
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.5	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.1	ug/L	76	16 - 128
1718-51-0	Terphenyl-d14	50	38.7	ug/L	77	43 - 138
4165-62-2	Phenol-d5	100	49.3	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	60.6	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	100	63.3	ug/L	63	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 18:18	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**107J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41	ug/L	82	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 19:53	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.9	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021101	**AOCU-GW96**	Water	02/28/2011 10:30	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 18:18	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.4	ug/L	77	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**53600**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/02/2011 10:29	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.207**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021102	**AOCU-GW100**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 18:15	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021102	**AOCU-GW100**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 18:15	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	51	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 18:15	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021102	**AOCU-GW100**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:04	KCB	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021102	**AOCU-GW100**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:04	KCB	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	40.3	ug/L	81	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.2	ug/L	70	16 - 128
1718-51-0	Terphenyl-d14	50	39.8	ug/L	80	43 - 138
4165-62-2	Phenol-d5	100	34.5	ug/L	35	10 - 120
367-12-4	2-Fluorophenol	100	47.2	ug/L	47	10 - 120
118-79-6	2,4,6-Tribromophenol	100	87.9	ug/L	88	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 18:36	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.7	ug/L	79	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 20:17	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021102	**AOCU-GW100**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 18:36	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.3	ug/L	75	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**21000**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/02/2011 10:33	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**2.63**	**0.050**	**0.013**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021103	**TRIP BLANK**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 18:38	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021103	**TRIP BLANK**	Water	02/28/2011 09:15	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 18:38	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	48.5	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.3	ug/L	103	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021104	**AOCU-GW82**	Water	02/28/2011 10:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:01	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021104	**AOCU-GW82**	Water	02/28/2011 10:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:01	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.4	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:01	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021104	**AOCU-GW82**	Water	02/28/2011 10:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:21	KCB	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021104	**AOCU-GW82**	Water	02/28/2011 10:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:21	KCB	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.1	ug/L	88	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.5	ug/L	79	16 - 128
1718-51-0	Terphenyl-d14	50	55.1	ug/L	110	43 - 138
4165-62-2	Phenol-d5	100	39.9	ug/L	40	10 - 120
367-12-4	2-Fluorophenol	100	54.1	ug/L	54	10 - 120
118-79-6	2,4,6-Tribromophenol	100	93.7	ug/L	94	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 19:29	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41.5	ug/L	83	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 20:41	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.4	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021104	**AOCU-GW82**	Water	02/28/2011 10:15	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 19:29	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39	ug/L	78	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**21200**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 10:34	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**8.01**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021105	**AOCU-GW83**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:23	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**5.59J**	**25**	**0.322**	**ug/L**
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021105	**AOCU-GW83**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:23	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:23	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021105	**AOCU-GW83**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:38	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021105	**AOCU-GW83**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:38	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.3	ug/L	83	52 - 120
321-60-8	2-Fluorobiphenyl	50	32.3	ug/L	65	16 - 128
1718-51-0	Terphenyl-d14	50	44.4	ug/L	89	43 - 138
4165-62-2	Phenol-d5	100	42	ug/L	42	10 - 120
367-12-4	2-Fluorophenol	100	52.9	ug/L	53	10 - 120
118-79-6	2,4,6-Tribromophenol	100	86.3	ug/L	86	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 19:47	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	40.4	ug/L	81	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 21:05	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.9	ug/L	83	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021105	**AOCU-GW83**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 19:47	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.9	ug/L	76	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**47200**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/02/2011 10:25	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.110**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021106	**TRIP BLANK**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:47	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021106	**TRIP BLANK**	Water	02/28/2011 09:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 19:47	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	48	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021107	**AOCU-GW80**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:09	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021107	**AOCU-GW80**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:09	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:09	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021107	**AOCU-GW80**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:54	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021107	**AOCU-GW80**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 10:54	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.8	ug/L	84	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.9	ug/L	72	16 - 128
1718-51-0	Terphenyl-d14	50	48.2	ug/L	96	43 - 138
4165-62-2	Phenol-d5	100	44.3	ug/L	44	10 - 120
367-12-4	2-Fluorophenol	100	52.6	ug/L	53	10 - 120
118-79-6	2,4,6-Tribromophenol	100	85.3	ug/L	85	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 20:05	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**58.2J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.4	ug/L	91	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 21:29	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.7	ug/L	82	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021107	**AOCU-GW80**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 20:05	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**84.7J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.6	ug/L	85	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**51400**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 10:35	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.74**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021108	**AOCU-GW93**	Water	02/28/2011 12:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:33	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021108	**AOCU-GW93**	Water	02/28/2011 12:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:33	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.5	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	48.3	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:33	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021108	**AOCU-GW93**	Water	02/28/2011 12:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:12	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021108	**AOCU-GW93**	Water	02/28/2011 12:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:12	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42	ug/L	84	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.5	ug/L	75	16 - 128
1718-51-0	Terphenyl-d14	50	43.7	ug/L	87	43 - 138
4165-62-2	Phenol-d5	100	47.4	ug/L	47	10 - 120
367-12-4	2-Fluorophenol	100	56.7	ug/L	57	10 - 120
118-79-6	2,4,6-Tribromophenol	100	89.5	ug/L	90	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 20:23	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**49.7J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.3	ug/L	79	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 21:53	BMR	451860

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.8	ug/L	83	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021108	**AOCU-GW93**	Water	02/28/2011 12:00	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 20:23	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36.8	ug/L	74	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**65000**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/02/2011 10:36	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.89**	**0.050**	**0.013**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021109	**TRIP BLANK**	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:55	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021109	TRIP BLANK	Water	02/28/2011 11:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 20:55	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	47.1	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021601	**AOCU-GW77**	Water	02/28/2011 14:10	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:19	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021601	**AOCU-GW77**	Water	02/28/2011 14:10	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:19	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:19	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021601	**AOCU-GW77**	Water	02/28/2011 14:10	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:29	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021601	**AOCU-GW77**	Water	02/28/2011 14:10	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:29	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.2	ug/L	86	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.3	ug/L	77	16 - 128
1718-51-0	Terphenyl-d14	50	47.6	ug/L	95	43 - 138
4165-62-2	Phenol-d5	100	44.5	ug/L	45	10 - 120
367-12-4	2-Fluorophenol	100	54.5	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.1	ug/L	90	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 20:40	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**44.5J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.2	ug/L	74	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:08	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.5	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021601	**AOCU-GW77**	Water	02/28/2011 14:10	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 20:40	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	34.9	ug/L	70	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**44400**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 11:53	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.12**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021602	**AOCU-GW78**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:42	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021602	**AOCU-GW78**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:42	CLH	451883

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 21:42	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021602	**AOCU-GW78**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:45	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	**Benzyl alcohol**	**0.425J**	**10.0**	**0.355**	**ug/L**
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021602	**AOCU-GW78**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 11:45	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	37.2	ug/L	74	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.5	ug/L	71	16 - 128
1718-51-0	Terphenyl-d14	50	46.1	ug/L	92	43 - 138
4165-62-2	Phenol-d5	100	36.1	ug/L	36	10 - 120
367-12-4	2-Fluorophenol	100	43.3	ug/L	43	10 - 120
118-79-6	2,4,6-Tribromophenol	100	79	ug/L	79	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 20:58	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.5	ug/L	87	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:32	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021602	**AOCU-GW78**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 20:58	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	40.8	ug/L	82	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**39600**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 11:54	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.31**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021603	**TRIP BLANK**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:07	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021603	**TRIP BLANK**	Water	02/28/2011 13:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:07	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021604	**AOCU-GW75A**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:30	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021604	**AOCU-GW75A**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:30	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.1	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:30	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021604	**AOCU-GW75A**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:01	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021604	**AOCU-GW75A**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:01	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.6	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	40	ug/L	80	16 - 128
1718-51-0	Terphenyl-d14	50	46.8	ug/L	94	43 - 138
4165-62-2	Phenol-d5	100	45.1	ug/L	45	10 - 120
367-12-4	2-Fluorophenol	100	55.4	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	86.8	ug/L	87	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 21:16	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.1	ug/L	92	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:56	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021604	**AOCU-GW75A**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 21:16	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.3	ug/L	87	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**66600**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 11:55	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.97**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021605	**AOCU-GW75**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:53	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021605	**AOCU-GW75**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:53	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.3	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 03:53	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021605	**AOCU-GW75**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:19	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021605	**AOCU-GW75**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:19	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	36.6	ug/L	73	52 - 120
321-60-8	2-Fluorobiphenyl	50	34.4	ug/L	69	16 - 128
1718-51-0	Terphenyl-d14	50	40.8	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	39.9	ug/L	40	10 - 120
367-12-4	2-Fluorophenol	100	47.4	ug/L	47	10 - 120
118-79-6	2,4,6-Tribromophenol	100	74.5	ug/L	75	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 21:34	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**693**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.3	ug/L	95	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 17:20	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021605	**AOCU-GW75**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 21:34	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**98.2J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.4	ug/L	89	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**60600**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 11:56	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.14**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021606	**TRIP BLANK**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 04:15	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021606	**TRIP BLANK**	Water	02/28/2011 15:15	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 04:15	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021607	**AOCU-GW98**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 01:34	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021607	**AOCU-GW98**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 01:34	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.2	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	48.1	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.5	ug/L	103	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 01:34	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021607	**AOCU-GW98**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:35	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021607	**AOCU-GW98**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:35	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.8	ug/L	90	52 - 120
321-60-8	2-Fluorobiphenyl	50	42.2	ug/L	84	16 - 128
1718-51-0	Terphenyl-d14	50	51.6	ug/L	103	43 - 138
4165-62-2	Phenol-d5	100	43.2	ug/L	43	10 - 120
367-12-4	2-Fluorophenol	100	55.6	ug/L	56	10 - 120
118-79-6	2,4,6-Tribromophenol	100	97.8	ug/L	98	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 21:51	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.1	ug/L	76	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 17:44	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.9	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021607	**AOCU-GW98**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 21:51	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.8	ug/L	72	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**30200**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 11:58	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.66**	**0.200**	**0.052**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021608	**TRIP BLANK**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 04:38	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021608	**TRIP BLANK**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 04:38	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021609	**AOCU-GW98-MS**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 01:57	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	47.0	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	48.8	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.7	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	50.5	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.5	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	52.2	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	49.7	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	48.0	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	74.4	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.7	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.4	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	56.7	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	50.4	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	47.1	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	51.0	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	53.1	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.3	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	45.9	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.3	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	45.9	5	0.058	ug/L
544-10-5	1-Chlorohexane	45.9	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	46.4	5	0.112	ug/L
78-93-3	2-Butanone	53.8	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	45.8	5	0.090	ug/L
591-78-6	2-Hexanone	55.7	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.5	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	47.4	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	59.8	5	0.142	ug/L
67-64-1	Acetone	43.6	25	0.322	ug/L
75-05-8	Acetonitrile	257	25	5.04	ug/L
107-02-8	Acrolein	275	25	2.49	ug/L
107-13-1	Acrylonitrile	266	25	1.62	ug/L
107-05-1	Allyl chloride	49.6	25	0.343	ug/L
71-43-2	Benzene	50.7	5	0.049	ug/L
108-86-1	Bromobenzene	48.3	5	0.095	ug/L
74-97-5	Bromochloromethane	48.0	5	0.238	ug/L
75-27-4	Bromodichloromethane	49.7	5	0.071	ug/L
75-25-2	Bromoform	52.4	5	0.278	ug/L
74-83-9	Bromomethane	51.4	5	0.276	ug/L
75-15-0	Carbon disulfide	48.5	5	0.190	ug/L
56-23-5	Carbon tetrachloride	50.5	5	0.056	ug/L
108-90-7	Chlorobenzene	46.6	5	0.055	ug/L
75-00-3	Chloroethane	25.4	5	0.279	ug/L
67-66-3	Chloroform	50.0	5	0.062	ug/L
74-87-3	Chloromethane	52.7	5	0.076	ug/L
124-48-1	Dibromochloromethane	50.3	5	0.133	ug/L
74-95-3	Dibromomethane	51.1	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.0	5	0.088	ug/L
97-63-2	Ethyl methacrylate	50.4	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021609	**AOCU-GW98-MS**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 01:57	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	**Ethylbenzene**	**47.7**	**5**	**0.180**	**ug/L**
87-68-3	**Hexachlorobutadiene**	**49.6**	**5**	**0.347**	**ug/L**
98-82-8	**Isopropylbenzene (Cumene)**	**47.8**	**5**	**0.058**	**ug/L**
126-98-7	**Methacrylonitrile**	**53.1**	**5**	**0.743**	**ug/L**
74-88-4	**Methyl iodide**	**43.2**	**5**	**0.097**	**ug/L**
80-62-6	**Methyl methacrylate**	**50.8**	**10**	**0.606**	**ug/L**
75-09-2	**Methylene chloride**	**49.5**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**49.2**	**5**	**0.175**	**ug/L**
76-01-7	**Pentachloroethane**	**52.0**	**5**	**1.87**	**ug/L**
107-12-0	**Propionitrile**	**270**	**100**	**3.06**	**ug/L**
100-42-5	**Styrene**	**48.7**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**46.2**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**48.7**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**47.3**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.7**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**52.7**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**55.5**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**52.4**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**50.9**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**51.8**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**94.1**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**47.9**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**48.1**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.8**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**48.6**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**47.7**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.0**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.5**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**50.5**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**50.3**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**118**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.6	ug/L	107	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:52	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**65.2**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**61.8**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021609	**AOCU-GW98-MS**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:52	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**82.0**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	**2-Chlorophenol**	**68.1**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**72.4**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**26.9**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**77.2**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021609	**AOCU-GW98-MS**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 12:52	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**68.2**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**34.8**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**86.2**	**10.0**	**0.486**	**ug/L**
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**75.7**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.5	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	41.8	ug/L	84	16 - 128
1718-51-0	Terphenyl-d14	50	48.6	ug/L	97	43 - 138
4165-62-2	Phenol-d5	100	40	ug/L	40	10 - 120
367-12-4	2-Fluorophenol	100	50.1	ug/L	50	10 - 120
118-79-6	2,4,6-Tribromophenol	100	89.6	ug/L	90	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 22:09	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**858**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.2	ug/L	90	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 18:08	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**458**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	28.8	ug/L	96	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021609	**AOCU-GW98-MS**	Water	02/28/2011 15:00	03/02/2011 09:20

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 23:20	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1400**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.6	ug/L	79	57 - 115

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 11:59	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**16.7**	**0.200**	**0.052**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021610	**AOCU-GW98-MSD**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 02:20	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	45.7	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	45.8	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.4	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	48.2	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	50.3	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.2	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	47.9	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	48.2	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	74.8	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.4	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.4	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	56.7	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	50.2	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	48.4	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.8	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	51.1	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	45.8	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	46.3	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	51.0	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	46.6	5	0.058	ug/L
544-10-5	1-Chlorohexane	45.2	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	44.0	5	0.112	ug/L
78-93-3	2-Butanone	55.3	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	44.9	5	0.090	ug/L
591-78-6	2-Hexanone	56.1	5	0.302	ug/L
106-43-4	4-Chlorotoluene	46.3	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.9	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	59.6	5	0.142	ug/L
67-64-1	Acetone	41.5	25	0.322	ug/L
75-05-8	Acetonitrile	257	25	5.04	ug/L
107-02-8	Acrolein	271	25	2.49	ug/L
107-13-1	Acrylonitrile	278	25	1.62	ug/L
107-05-1	Allyl chloride	50.1	25	0.343	ug/L
71-43-2	Benzene	48.2	5	0.049	ug/L
108-86-1	Bromobenzene	47.7	5	0.095	ug/L
74-97-5	Bromochloromethane	46.4	5	0.238	ug/L
75-27-4	Bromodichloromethane	47.9	5	0.071	ug/L
75-25-2	Bromoform	57.2	5	0.278	ug/L
74-83-9	Bromomethane	50.1	5	0.276	ug/L
75-15-0	Carbon disulfide	47.3	5	0.190	ug/L
56-23-5	Carbon tetrachloride	49.2	5	0.056	ug/L
108-90-7	Chlorobenzene	44.9	5	0.055	ug/L
75-00-3	Chloroethane	27.0	5	0.279	ug/L
67-66-3	Chloroform	49.9	5	0.062	ug/L
74-87-3	Chloromethane	52.4	5	0.076	ug/L
124-48-1	Dibromochloromethane	50.6	5	0.133	ug/L
74-95-3	Dibromomethane	51.0	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	48.4	5	0.088	ug/L
97-63-2	Ethyl methacrylate	50.4	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021610	**AOCU-GW98-MSD**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 02:20	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	**Ethylbenzene**	**46.5**	**5**	**0.180**	**ug/L**
87-68-3	**Hexachlorobutadiene**	**47.7**	**5**	**0.347**	**ug/L**
98-82-8	**Isopropylbenzene (Cumene)**	**48.9**	**5**	**0.058**	**ug/L**
126-98-7	**Methacrylonitrile**	**50.2**	**5**	**0.743**	**ug/L**
74-88-4	**Methyl iodide**	**41.9**	**5**	**0.097**	**ug/L**
80-62-6	**Methyl methacrylate**	**49.2**	**10**	**0.606**	**ug/L**
75-09-2	**Methylene chloride**	**47.8**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**53.0**	**5**	**0.175**	**ug/L**
76-01-7	**Pentachloroethane**	**50.7**	**5**	**1.87**	**ug/L**
107-12-0	**Propionitrile**	**265**	**100**	**3.06**	**ug/L**
100-42-5	**Styrene**	**50.4**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**44.8**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**47.0**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**46.7**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.3**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**51.3**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**53.6**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**52.5**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**50.3**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**48.4**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**92.9**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**49.7**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**44.3**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**46.0**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**49.2**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**48.1**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**51.6**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**45.9**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**48.9**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**49.3**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**113**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	48.5	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	47.9	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.6	ug/L	103	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:08	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**71.2**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**65.5**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021610	**AOCU-GW98-MSD**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:08	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**88.7**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	**2-Chlorophenol**	**74.4**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**79.6**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**33.2**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**82.3**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021610	**AOCU-GW98-MSD**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:08	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**72.2**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**38.3**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**92.5**	**10.0**	**0.486**	**ug/L**
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**80.4**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.4	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	43.9	ug/L	88	16 - 128
1718-51-0	Terphenyl-d14	50	48.9	ug/L	98	43 - 138
4165-62-2	Phenol-d5	100	42.4	ug/L	42	10 - 120
367-12-4	2-Fluorophenol	100	54.5	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	94.9	ug/L	95	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 23:03	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**810**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.5	ug/L	87	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 18:32	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**449**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	28.8	ug/L	96	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021610	**AOCU-GW98-MSD**	Water	02/28/2011 15:00	03/02/2011 09:20

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 23:38	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1450**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.7	ug/L	89	57 - 115

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 12:00	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**16.6**	**0.200**	**0.052**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021611	**AOCU-GW98-DUP**	Water	02/28/2011 15:00	03/02/2011 09:20

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**30300**	**100**	**100**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021612	**TRIP BLANK**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:01	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021612	**TRIP BLANK**	Water	02/28/2011 15:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:01	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	48.8	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021613	**AOCU-GW89**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:23	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021613	**AOCU-GW89**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:23	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.4	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51.1	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:23	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021613	**AOCU-GW89**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:25	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021613	**AOCU-GW89**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:25	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.3	ug/L	83	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.7	ug/L	75	16 - 128
1718-51-0	Terphenyl-d14	50	34.8	ug/L	70	43 - 138
4165-62-2	Phenol-d5	100	47	ug/L	47	10 - 120
367-12-4	2-Fluorophenol	100	55.2	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	87.7	ug/L	88	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/03/2011 23:56	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.2	ug/L	92	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 18:56	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.2	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021613	**AOCU-GW89**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/03/2011 23:56	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.3	ug/L	87	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**70200**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/02/2011 12:04	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**2.72**	**0.050**	**0.013**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021614	**AOCU-GW91**	Water	03/01/2011 10:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:46	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021614	**AOCU-GW91**	Water	03/01/2011 10:00	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:46	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.9	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 05:46	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021614	**AOCU-GW91**	Water	03/01/2011 10:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:42	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021614	**AOCU-GW91**	Water	03/01/2011 10:00	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:42	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	25	ug/L	**50***	52 - 120
321-60-8	2-Fluorobiphenyl	50	25.5	ug/L	51	16 - 128
1718-51-0	Terphenyl-d14	50	26.3	ug/L	53	43 - 138
4165-62-2	Phenol-d5	100	38	ug/L	38	10 - 120
367-12-4	2-Fluorophenol	100	41	ug/L	41	10 - 120
118-79-6	2,4,6-Tribromophenol	100	52.1	ug/L	52	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/04/2011 00:14	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.6	ug/L	89	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 19:20	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.6	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021614	**AOCU-GW91**	Water	03/01/2011 10:00	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/04/2011 00:14	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41.9	ug/L	84	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**91000**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	03/02/2011 11:49	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**605**	**10.0**	**2.60**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021615	**TRIP BLANK**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:09	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021615	**TRIP BLANK**	Water	03/01/2011 09:00	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:09	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021616	**AOCU-GW86**	Water	03/01/2011 10:55	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:31	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021616	**AOCU-GW86**	Water	03/01/2011 10:55	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:31	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:31	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021616	**AOCU-GW86**	Water	03/01/2011 10:55	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:59	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	**Benzyl alcohol**	**1.04J**	**10.0**	**0.355**	**ug/L**
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021616	**AOCU-GW86**	Water	03/01/2011 10:55	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 13:59	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.6	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.1	ug/L	80	16 - 128
1718-51-0	Terphenyl-d14	50	45.7	ug/L	91	43 - 138
4165-62-2	Phenol-d5	100	41.9	ug/L	42	10 - 120
367-12-4	2-Fluorophenol	100	51.9	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	85.5	ug/L	86	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/04/2011 00:31	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.1	ug/L	90	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 19:44	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.3	ug/L	88	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021616	**AOCU-GW86**	Water	03/01/2011 10:55	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/04/2011 00:31	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.3	ug/L	85	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**45200**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/02/2011 11:50	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.53**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021617	**AOCU-GW84**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:54	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021617	**AOCU-GW84**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:54	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.7	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 06:54	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021617	**AOCU-GW84**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 14:16	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	**Benzyl alcohol**	**0.643J**	**10.0**	**0.355**	**ug/L**
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021617	**AOCU-GW84**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 12:30	451640	3510C	1	03/07/2011 14:16	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.5	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	44.8	ug/L	90	16 - 128
1718-51-0	Terphenyl-d14	50	49.4	ug/L	99	43 - 138
4165-62-2	Phenol-d5	100	39.2	ug/L	39	10 - 120
367-12-4	2-Fluorophenol	100	52.1	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90	ug/L	90	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451642	3510C	1	03/04/2011 00:49	SMH	451813

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.4	ug/L	89	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 20:56	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	27.2	ug/L	91	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021617	**AOCU-GW84**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 10:30	451643	3510C	1	03/04/2011 00:49	SMH	451814

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41.7	ug/L	83	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 14:00	DJH	451638

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**42400**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/02/2011 12:05	AEL	451624

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**13.5**	**0.200**	**0.052**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021618	**TRIP BLANK**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 07:17	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021618	**TRIP BLANK**	Water	03/01/2011 09:20	03/02/2011 09:20

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 07:17	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.4	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	49	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021619	**AOCU-GW75-M**	Water	02/28/2011 15:16	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:22	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	100	03/08/2011 09:36	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**24000**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	10	03/08/2011 13:32	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.065B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.058B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**710**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.015B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	**Cobalt**	**0.0076B**	**0.10**	**0.0040**	**mg/L**
7440-50-8	**Copper**	**0.023B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**4110**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.87**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.033B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**139**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021620	**AOCU-GW75A-M**	Water	02/28/2011 15:16	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:24	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	100	03/08/2011 09:43	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**26500**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	10	03/08/2011 13:40	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.054B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.045B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**765**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.015B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	**Cobalt**	**0.0084B**	**0.10**	**0.0040**	**mg/L**
7440-50-8	**Copper**	**0.018B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**4370**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.94**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.038B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**157**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021621	**AOCU-GW77-M**	Water	02/28/2011 14:11	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:25	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 20:22	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.023B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.024B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**641**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.011B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.032B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2540**	**0.50**	**0.072**	**mg/L**
7439-96-5	Manganese	0.0062U	0.075	0.0062	mg/L
7440-02-0	**Nickel**	**0.020B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**71.8**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 12:58	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**13500**	**25.0**	**1.29**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021622	**AOCU-GW78-M**	Water	02/28/2011 13:21	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:27	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 20:29	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.022B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.030B**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.0050B**	**0.050**	**0.00055**	**mg/L**
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**629**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.016B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.048B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1950**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.011B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.016B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**66.3**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	**Zinc**	**0.051B**	**0.10**	**0.014**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 13:06	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**11200**	**25.0**	**1.29**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021623	**AOCU-GW80-M**	Water	02/28/2011 11:01	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:28	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 20:37	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.027B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.028B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**613**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.010B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**3200**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.054B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.021B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**154**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	50	03/07/2011 14:00	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**18400**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021624	**AOCU-GW82-M**	Water	02/28/2011 10:16	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:30	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 21:28	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.023B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.020B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**629**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.014B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.074**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**989**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.0076B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.011B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**23.7**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 13:22	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4930**	**25.0**	**1.29**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021625	**AOCU-GW83-M**	Water	02/28/2011 09:21	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:32	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 21:36	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.027B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.039B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**650**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0098B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.0033B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2860**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.25**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.019B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**83.1**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 13:30	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**14200**	**25.0**	**1.29**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021626	**AOCU-GW93-M**	Water	02/28/2011 12:01	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:33	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 21:43	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.037B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**726**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0029B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.0043B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**3860**	**0.50**	**0.072**	**mg/L**
7439-96-5	Manganese	0.0062U	0.075	0.0062	mg/L
7440-02-0	**Nickel**	**0.024B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**155**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	50	03/07/2011 14:07	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**22700**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021627	**AOCU-GW96-M**	Water	02/28/2011 10:31	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:35	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 21:50	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.032B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**840**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0097B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.0023B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**3340**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.047B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.023B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**145**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	50	03/07/2011 17:49	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**18900**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021628	**AOCU-GW98-M**	Water	02/28/2011 15:01	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:13	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 16:55	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7890**	**25.0**	**1.29**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/08/2011 12:58	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.022B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.025B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**638**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0092B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.017B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1820**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.017B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.016B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**31.2**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021629	**AOCU-GW98-M-MS**	Water	02/28/2011 15:01	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:14	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00412**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 17:03	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7950**	**25.0**	**1.29**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/08/2011 13:05	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.68**	**1.00**	**0.22**	**mg/L**
7440-36-0	**Antimony**	**0.53**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.53**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.46**	**0.050**	**0.00055**	**mg/L**
7440-41-7	**Beryllium**	**0.47**	**0.025**	**0.00057**	**mg/L**
7440-43-9	**Cadmium**	**0.45**	**0.025**	**0.00055**	**mg/L**
7440-70-2	**Calcium**	**618**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.46**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.46**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.51**	**0.050**	**0.0069**	**mg/L**
7439-89-6	**Iron**	**4.60**	**0.50**	**0.19**	**mg/L**
7439-92-1	**Lead**	**0.44**	**0.075**	**0.0070**	**mg/L**
7439-95-4	**Magnesium**	**1750**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.49**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.47**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**40.4**	**2.50**	**0.26**	**mg/L**
7782-49-2	**Selenium**	**0.52**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.51**	**0.050**	**0.0030**	**mg/L**
7440-28-0	**Thallium**	**0.46**	**0.10**	**0.0088**	**mg/L**
7440-62-2	**Vanadium**	**0.32**	**0.10**	**0.0041**	**mg/L**
7440-66-6	**Zinc**	**0.42**	**0.10**	**0.014**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021630	**AOCU-GW98-M-MSD**	Water	02/28/2011 15:01	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:16	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00406**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 17:11	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**8170**	**25.0**	**1.29**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/08/2011 13:12	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.59**	**1.00**	**0.22**	**mg/L**
7440-36-0	**Antimony**	**0.54**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.56**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.47**	**0.050**	**0.00055**	**mg/L**
7440-41-7	**Beryllium**	**0.48**	**0.025**	**0.00057**	**mg/L**
7440-43-9	**Cadmium**	**0.47**	**0.025**	**0.00055**	**mg/L**
7440-70-2	**Calcium**	**635**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.46**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.48**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.52**	**0.050**	**0.0069**	**mg/L**
7439-89-6	**Iron**	**4.60**	**0.50**	**0.19**	**mg/L**
7439-92-1	**Lead**	**0.44**	**0.075**	**0.0070**	**mg/L**
7439-95-4	**Magnesium**	**1800**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.50**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.47**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**42.0**	**2.50**	**0.26**	**mg/L**
7782-49-2	**Selenium**	**0.54**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.52**	**0.050**	**0.0030**	**mg/L**
7440-28-0	**Thallium**	**0.47**	**0.10**	**0.0088**	**mg/L**
7440-62-2	**Vanadium**	**0.32**	**0.10**	**0.0041**	**mg/L**
7440-66-6	**Zinc**	**0.51**	**0.10**	**0.014**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021631	**AOCU-GW100-M**	Water	02/28/2011 09:16	03/02/2011 09:20

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:03	451634	SW-846 7470A Dissolved	1	03/07/2011 17:37	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	5	03/03/2011 21:58	CLB	451834

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**828**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.013B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.0021B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.069**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1020**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.28**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.010B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**29.5**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/02/2011 11:30	451633	SW-846 3005 Dissolved	25	03/07/2011 13:52	AJW	451962

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**4800**	**25.0**	**1.29**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021632	**AOCU-GW84-M**	Water	03/01/2011 09:21	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:20	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 14:37	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.031B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.027B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**801**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.010B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.032B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1690**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.39**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.018B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**73.6**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 08:33	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**13500**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021633	**AOCU-GW86-M**	Water	03/01/2011 10:56	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:30	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 18:57	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.043B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**611**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0047B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.0069B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2230**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.011B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.019B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**56.1**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 09:19	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**10200**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021634	**AOCU-GW89-M**	Water	03/01/2011 09:01	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:31	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 09:11	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**29000**	**50.0**	**2.57**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	10	03/09/2011 16:08	CLB	452109

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.043B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**665**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.011B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6210**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.025B**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.052B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**177**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103021635	**AOCU-GW91-M**	Water	03/01/2011 10:01	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:33	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	100	03/09/2011 10:39	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**39100**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	10	03/09/2011 16:15	CLB	452109

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.049B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.083B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**554**	**1.00**	**0.26**	**mg/L**
7440-47-3	Chromium	0.0034U	0.10	0.0034	mg/L
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**8110**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.18**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.051B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**278**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797	**Client ID**	MB451797	LCS451797	LCSD451797
Prep Batch N/A	**GCAL ID**	926178	926179	926180
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	03/06/2011 01:12	03/05/2011 23:19	03/05/2011 23:41
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	44.6	89	59 - 134	40.9	82	9	30
107-02-8	Acrolein	2.49U	2.49	250	332	133	33 - 157	343	137	3	30
107-13-1	Acrylonitrile	1.62U	1.62	250	465	**186***	62 - 124	452	**181***	3	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	49.8	100	78 - 112	48.2	96	3	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	48.7	97	76 - 116	47.7	95	2	30
75-25-2	Bromoform	0.278U	0.278	50.0	56.3	113	68 - 128	51.9	104	8	30
74-83-9	Bromomethane	0.276U	0.276	50.0	54.7	109	55 - 151	51.6	103	6	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	50.4	101	67 - 147	46.2	92	9	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	51.2	102	74 - 139	48.4	97	6	30
75-00-3	Chloroethane	0.279U	0.279	50.0	52.3	105	54 - 166	47.8	96	9	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	99.5	100	83 - 121	94.5	95	5	30
67-66-3	Chloroform	0.062U	0.062	50.0	50.9	102	85 - 123	47.0	94	8	30
74-87-3	Chloromethane	0.076U	0.076	50.0	49.4	99	55 - 173	50.7	101	3	30
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	50.6	101	74 - 116	47.9	96	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	53.6	107	81 - 116	49.6	99	8	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	49.9	100	34 - 158	46.0	92	8	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.3	101	82 - 127	47.8	96	5	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	51.3	103	76 - 122	47.6	95	7	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	52.4	105	81 - 114	53.2	106	2	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	51.7	103	82 - 126	45.4	91	13	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	48.5	97	69 - 125	45.2	90	7	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.0	104	81 - 120	47.6	95	9	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	48.8	98	83 - 119	47.6	95	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.1	100	87 - 123	48.1	96	4	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.2	100	87 - 118	48.9	98	3	30
97-63-2	Ethyl methacrylate	0.340U	0.340								
591-78-6	2-Hexanone	0.302U	0.302	50.0	44.3	89	58 - 125	45.3	91	2	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.8	106	87 - 131	47.2	94	11	30
78-93-3	2-Butanone	0.235U	0.235	50.0	44.9	90	61 - 127	47.0	94	5	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	46.0	92	72 - 125	42.4	85	8	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	48.9	98	62 - 125	45.7	91	7	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.5	103	86 - 125	46.8	94	10	30
100-42-5	Styrene	0.058U	0.058	50.0	52.4	105	78 - 118	50.1	100	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	451797	**Client ID**	MB451797			LCS451797			LCSD451797		
Prep Batch	N/A	**GCAL ID**	926178			926179			926180		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 01:12			03/05/2011 23:19			03/05/2011 23:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
127-18-4	Tetrachloroethene	0.210U	0.210		50.0	48.6	97	80 - 131	43.7	87	11	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	48.9	98	81 - 119	46.5	93	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	53.0	106	71 - 120	50.4	101	5	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	48.0	96	68 - 123	47.6	95	0.8	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	48.8	98	79 - 133	45.5	91	7	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	49.4	99	80 - 114	45.8	92	8	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	53.0	106	66 - 156	48.0	96	10	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	51.7	103	77 - 115	49.7	99	4	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	51.0	102	82 - 120	47.5	95	7	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	50.5	101	83 - 123	47.4	95	6	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	52.2	104	57 - 153	46.9	94	11	30
95-47-6	o-Xylene	0.077U	0.077		50.0	51.6	103	83 - 121	47.2	94	9	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	48.8	98	61 - 118	49.0	98	0.4	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	51.6	103	80 - 115	49.8	100	4	30
80-62-6	Methyl methacrylate	0.606U	0.606									
107-12-0	Propionitrile	3.06U	3.06									
108-05-4	Vinyl acetate	0.197U	0.197		50.0	55.0	110	38 - 159	55.0	110	0	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	52.7	105	75 - 116	50.7	101	4	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	52.8	106	83 - 125	47.4	95	11	30
110-54-3	n-Hexane	0.126U	0.126		50.0	49.4	99	71 - 134	46.8	94	5	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429		50.0	50.9	102	51 - 137	50.0	100	2	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	52.9	106	77 - 138	47.3	95	11	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141		50.0	53.0	106	74 - 139	48.0	96	10	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	48.8	98	87 - 127	47.5	95	3	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20		50.0	48.0	96	63 - 125	46.0	92	4	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	51.6	103	81 - 113	49.0	98	5	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	50.6	101	83 - 115	45.9	92	10	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	51.4	103	81 - 121	47.0	94	9	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	50.0	100	84 - 120	46.1	92	8	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	50.3	101	83 - 126	45.8	92	9	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	51.5	103	86 - 127	46.8	94	10	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	50.1	100	86 - 115	46.1	92	8	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	49.4	99	87 - 113	47.1	94	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	MB451797			LCS451797			LCSD451797		
Prep Batch N/A		**GCAL ID**	926178			926179			926180		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 01:12			03/05/2011 23:19			03/05/2011 23:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	52.4	105	84 - 124	49.1	98	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.1	102	85 - 115	47.7	95	7	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	54.0	108	71 - 133	45.8	92	16	30
91-20-3	Naphthalene		0.175U	0.175	50.0	47.2	94	59 - 125	50.1	100	6	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	49.9	100	64 - 126	47.0	94	6	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.2	108	87 - 128	52.7	105	3	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	50.4	101	75 - 133	46.1	92	9	20
71-43-2	Benzene		0.049U	0.049	50.0	48.8	98	83 - 124	47.1	94	4	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	48.8	98	85 - 124	45.4	91	7	20
108-88-3	Toluene		0.078U	0.078	50.0	49.1	98	86 - 116	45.7	91	7	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.1	94	87 - 115	46.0	92	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.9	100	50	50.9	102	84 - 120	50.2	100		
1868-53-7	Dibromofluoromethane		50	100	50	50.6	101	87 - 116	50.4	101		
2037-26-5	Toluene d8		50	100	50	48.7	97	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4		51.4	103	50	52.3	105	76 - 127	49.1	98		

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	47.0	94	81 - 119	45.7	91	3	10
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	48.8	98	79 - 133	45.8	92	6	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	53.7	107	71 - 120	53.4	107	0.6	11
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	50.5	101	80 - 114	48.2	96	5	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	51.5	103	82 - 127	50.3	101	2	10
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	52.2	104	75 - 133	49.2	98	6	13
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	49.7	99	87 - 127	47.9	96	4	10
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	48.0	96	64 - 126	48.2	96	0.4	16
96-18-4	1,2,3-Trichloropropane		0.00	0.063	50.0	74.4	**149***	77 - 115	74.8	**150***	0.5	12
120-82-1	1,2,4-Trichlorobenzene		0.00	0.138	50.0	45.7	91	68 - 123	47.4	95	4	11
95-63-6	1,2,4-Trimethylbenzene		0.00	0.080	50.0	47.4	95	82 - 120	47.4	95	0	10
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.082	50.0	56.7	113	61 - 118	56.7	113	0	15
106-93-4	1,2-Dibromoethane		0.00	0.169	50.0	50.4	101	80 - 115	50.2	100	0.4	10
95-50-1	1,2-Dichlorobenzene		0.00	0.086	50.0	47.1	94	85 - 115	48.4	97	3	9
107-06-2	1,2-Dichloroethane		0.00	0.121	50.0	51.0	102	76 - 122	49.8	100	2	11
78-87-5	1,2-Dichloropropane		0.00	0.114	50.0	53.1	106	81 - 120	51.1	102	4	11
108-67-8	1,3,5-Trimethylbenzene		0.00	0.053	50.0	46.3	93	83 - 123	45.8	92	1	10
541-73-1	1,3-Dichlorobenzene		0.00	0.080	50.0	45.9	92	86 - 115	46.3	93	0.9	9
142-28-9	1,3-Dichloropropane		0.00	0.113	50.0	52.3	105	81 - 113	51.0	102	3	11
106-46-7	1,4-Dichlorobenzene		0.00	0.058	50.0	45.9	92	87 - 113	46.6	93	2	10
544-10-5	1-Chlorohexane		0.00	0.139	50.0	45.9	92	87 - 128	45.2	90	2	10
594-20-7	2,2-Dichloropropane		0.00	0.112	50.0	46.4	93	77 - 138	44.0	88	5	12
78-93-3	2-Butanone		0.00	0.235	50.0	53.8	108	61 - 127	55.3	111	3	13
110-75-8	2-Chloroethylvinyl ether		0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
95-49-8	2-Chlorotoluene		0.00	0.090	50.0	45.8	92	81 - 121	44.9	90	2	10
591-78-6	2-Hexanone		0.00	0.302	50.0	55.7	111	58 - 125	56.1	112	0.7	14
106-43-4	4-Chlorotoluene		0.00	0.046	50.0	47.5	95	84 - 120	46.3	93	3	10
99-87-6	4-Isopropyltoluene		0.00	0.175	50.0	47.4	95	83 - 125	46.9	94	1	9
108-10-1	4-Methyl-2-pentanone		0.00	0.142	50.0	59.8	120	62 - 125	59.6	119	0.3	13
67-64-1	Acetone		0.00	0.322	50.0	43.6	87	59 - 134	41.5	83	5	14
107-02-8	Acrolein		0.00	2.49	250	275	110	33 - 157	271	108	1	21
107-13-1	Acrylonitrile		0.00	1.62	250	266	106	62 - 124	278	111	4	13
71-43-2	Benzene		0.00	0.049	50.0	50.7	101	83 - 124	48.2	96	5	11
108-86-1	Bromobenzene		0.00	0.095	50.0	48.3	97	83 - 115	47.7	95	1	10
74-97-5	Bromochloromethane		0.00	0.238	50.0	48.0	96	78 - 112	46.4	93	3	10
75-27-4	Bromodichloromethane		0.00	0.071	50.0	49.7	99	76 - 116	47.9	96	4	10
75-25-2	Bromoform		0.00	0.278	50.0	52.4	105	68 - 128	57.2	114	9	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
74-83-9	Bromomethane	0.00	0.276	50.0	51.4	103	55 - 151	50.1	100	3	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	48.5	97	67 - 147	47.3	95	3	12
56-23-5	Carbon tetrachloride	0.00	0.056	50.0	50.5	101	74 - 139	49.2	98	3	13
108-90-7	Chlorobenzene	0.00	0.055	50.0	46.6	93	87 - 115	44.9	90	4	9
75-00-3	Chloroethane	0.00	0.279	50.0	25.4	**51***	54 - 166	27.0	54	6	20
67-66-3	Chloroform	0.00	0.062	50.0	50.0	100	85 - 123	49.9	100	0.2	10
74-87-3	Chloromethane	0.00	0.076	50.0	52.7	105	55 - 173	52.4	105	0.6	22
124-48-1	Dibromochloromethane	0.00	0.133	50.0	50.3	101	74 - 116	50.6	101	0.6	11
74-95-3	Dibromomethane	0.00	0.197	50.0	51.1	102	81 - 116	51.0	102	0.2	10
75-71-8	Dichlorodifluoromethane	0.00	0.088	50.0	49.0	98	34 - 158	48.4	97	1	22
100-41-4	Ethylbenzene	0.00	0.180	50.0	47.7	95	87 - 118	46.5	93	3	10
87-68-3	Hexachlorobutadiene	0.00	0.347	50.0	49.6	99	71 - 133	47.7	95	4	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.058	50.0	47.8	96	87 - 131	48.9	98	2	10
74-88-4	Methyl iodide	0.00	0.097	50.0	43.2	86	72 - 125	41.9	84	3	11
75-09-2	Methylene chloride	0.00	0.102	50.0	49.5	99	69 - 125	47.8	96	3	11
91-20-3	Naphthalene	0.00	0.175	50.0	49.2	98	59 - 125	53.0	106	7	15
100-42-5	Styrene	0.00	0.058	50.0	48.7	97	78 - 118	50.4	101	3	11
127-18-4	Tetrachloroethene	0.00	0.210	50.0	46.2	92	80 - 131	44.8	90	3	12
108-88-3	Toluene	0.00	0.078	50.0	48.7	97	86 - 116	47.0	94	4	10
79-01-6	Trichloroethene	0.00	0.094	50.0	47.3	95	85 - 124	46.7	93	1	10
75-69-4	Trichlorofluoromethane	0.00	0.094	50.0	50.7	101	66 - 156	50.3	101	0.8	15
76-13-1	Trichlorotrifluoroethane	0.00	0.141	50.0	52.7	105	74 - 139	51.3	103	3	13
108-05-4	Vinyl acetate	0.00	0.197	50.0	55.5	111	38 - 159	53.6	107	3	11
75-01-4	Vinyl chloride	0.00	0.104	50.0	52.4	105	57 - 153	52.5	105	0.2	22
156-59-2	cis-1,2-Dichloroethene	0.00	0.104	50.0	50.9	102	81 - 114	50.3	101	1	10
10061-01-5	cis-1,3-Dichloropropene	0.00	0.105	50.0	51.8	104	83 - 119	48.4	97	7	10
136777-61-2	m,p-Xylene	0.00	0.099	100	94.1	94	83 - 121	92.9	93	1	10
104-51-8	n-Butylbenzene	0.00	0.068	50.0	47.9	96	84 - 124	49.7	99	4	10
110-54-3	n-Hexane	0.00	0.126	50.0	48.1	96	71 - 134	44.3	89	8	11
103-65-1	n-Propylbenzene	0.00	0.069	50.0	47.8	96	86 - 125	46.0	92	4	10
95-47-6	o-Xylene	0.00	0.077	50.0	48.6	97	83 - 121	49.2	98	1	10
135-98-8	sec-Butylbenzene	0.00	0.088	50.0	47.7	95	86 - 127	48.1	96	0.8	10
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.084	50.0	52.0	104	75 - 116	51.6	103	0.8	10

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
98-06-6	tert-Butylbenzene	0.00	0.058		50.0	47.5	95	83 - 126	45.9	92	3	10
156-60-5	trans-1,2-Dichloroethene	0.00	0.096		50.0	50.5	101	82 - 126	48.9	98	3	10
10061-02-6	trans-1,3-Dichloropropene	0.00	0.068		50.0	50.3	101	87 - 123	49.3	99	2	10
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.429		50.0	118	**236***	51 - 137	113	**226***	4	24
Surrogate												
460-00-4	4-Bromofluorobenzene	47.2	94		50	47.9	96	84 - 120	49.6	99		
1868-53-7	Dibromofluoromethane	51.4	103		50	50.1	100	87 - 116	48.5	97		
2037-26-5	Toluene d8	48.1	96		50	48.2	96	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4	51.5	103		50	53.6	107	76 - 127	51.6	103		

Analytical Batch 451883		**Client ID**	MB451883			LCS451883			LCSD451883		
Prep Batch N/A		**GCAL ID**	926598			926599			926600		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/05/2011 17:29			03/05/2011 15:48			03/05/2011 16:11		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322		50.0	50.4	101	59 - 134	50.3	101	0.2	30
107-02-8	Acrolein	2.49U	2.49		250	247	99	33 - 157	238	95	4	30
107-13-1	Acrylonitrile	1.62U	1.62		250	247	99	62 - 124	248	99	0.4	30
74-97-5	Bromochloromethane	0.238U	0.238		50.0	50.3	101	78 - 112	50.2	100	0.2	30
75-27-4	Bromodichloromethane	0.071U	0.071		50.0	48.6	97	76 - 116	49.4	99	2	30
75-25-2	Bromoform	0.278U	0.278		50.0	50.6	101	68 - 128	53.4	107	5	30
74-83-9	Bromomethane	0.276U	0.276		50.0	54.6	109	55 - 151	48.1	96	13	30
75-15-0	Carbon disulfide	0.190U	0.190		50.0	49.2	98	67 - 147	46.6	93	5	30
56-23-5	Carbon tetrachloride	0.056U	0.056		50.0	49.6	99	74 - 139	49.4	99	0.4	30
75-00-3	Chloroethane	0.279U	0.279		50.0	49.0	98	54 - 166	47.7	95	3	30
136777-61-2	m,p-Xylene	0.099U	0.099		100	94.7	95	83 - 121	95.4	95	0.7	30
67-66-3	Chloroform	0.062U	0.062		50.0	49.4	99	85 - 123	46.9	94	5	30
74-87-3	Chloromethane	0.076U	0.076		50.0	51.0	102	55 - 173	45.9	92	11	30
124-48-1	Dibromochloromethane	0.133U	0.133		50.0	47.4	95	74 - 116	49.7	99	5	30
74-95-3	Dibromomethane	0.197U	0.197		50.0	49.8	100	81 - 116	49.7	99	0.2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451883	**Client ID**	MB451883	LCS451883	LCSD451883
Prep Batch N/A	**GCAL ID**	926598	926599	926600
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	03/05/2011 17:29	03/05/2011 15:48	03/05/2011 16:11
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	48.7	97	34 - 158	45.3	91	7	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	49.5	99	82 - 127	47.5	95	4	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	47.8	96	76 - 122	48.0	96	0.4	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	47.4	95	81 - 114	50.2	100	6	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	48.7	97	82 - 126	46.6	93	4	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	47.6	95	69 - 125	43.0	86	10	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	50.2	100	81 - 120	49.9	100	0.6	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	48.2	96	83 - 119	48.6	97	0.8	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	47.2	94	87 - 123	48.4	97	3	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	47.9	96	87 - 118	48.2	96	0.6	30
97-63-2	Ethyl methacrylate	0.340U	0.340								
591-78-6	2-Hexanone	0.302U	0.302	50.0	45.5	91	58 - 125	48.0	96	5	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	46.8	94	87 - 131	47.7	95	2	30
78-93-3	2-Butanone	0.235U	0.235	50.0	50.8	102	61 - 127	50.7	101	0.2	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	45.4	91	72 - 125	38.5	77	16	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	50.2	100	62 - 125	49.3	99	2	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	49.3	99	86 - 125	49.0	98	0.6	30
100-42-5	Styrene	0.058U	0.058	50.0	48.7	97	78 - 118	50.0	100	3	30
127-18-4	Tetrachloroethene	0.210U	0.210	50.0	46.9	94	80 - 131	45.6	91	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	44.9	90	81 - 119	44.9	90	0	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	48.5	97	71 - 120	51.1	102	5	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	48.5	97	68 - 123	47.7	95	2	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	46.9	94	79 - 133	46.0	92	2	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	45.7	91	80 - 114	48.1	96	5	30
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	49.5	99	66 - 156	48.0	96	3	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	50.3	101	77 - 115	50.0	100	0.6	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.5	99	82 - 120	49.0	98	1	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	48.9	98	83 - 123	48.5	97	0.8	30
75-01-4	Vinyl chloride	0.104U	0.104	50.0	50.5	101	57 - 153	47.7	95	6	30
95-47-6	o-Xylene	0.077U	0.077	50.0	46.8	94	83 - 121	47.2	94	0.9	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	47.2	94	61 - 118	51.8	104	9	30
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	46.6	93	80 - 115	49.1	98	5	30
80-62-6	Methyl methacrylate	0.606U	0.606								

GC/MS Volatiles Quality Control Summary

Analytical Batch 451883		**Client ID**	MB451883			LCS451883			LCSD451883		
Prep Batch N/A		**GCAL ID**	926598			926599			926600		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/05/2011 17:29			03/05/2011 15:48			03/05/2011 16:11		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
107-12-0	Propionitrile		3.06U	3.06								
108-05-4	Vinyl acetate		0.197U	0.197	50.0	44.8	90	38 - 159	43.8	88	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	49.4	99	75 - 116	47.1	94	5	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	49.4	99	83 - 125	49.0	98	0.8	30
110-54-3	n-Hexane		0.126U	0.126	50.0	49.4	99	71 - 134	44.8	90	10	30
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429	50.0	51.5	103	51 - 137	48.6	97	6	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	46.7	93	77 - 138	46.7	93	0	30
76-13-1	Trichlorotrifluoroethane		0.141U	0.141	50.0	51.0	102	74 - 139	47.8	96	6	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	50.7	101	87 - 127	47.3	95	7	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20	50.0	58.0	116	63 - 125	47.5	95	20	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	48.4	97	81 - 113	49.7	99	3	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	47.5	95	83 - 115	48.0	96	1	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	48.7	97	81 - 121	49.2	98	1	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	48.1	96	84 - 120	47.5	95	1	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	49.7	99	83 - 126	47.7	95	4	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	49.5	99	86 - 127	48.2	96	3	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	47.6	95	86 - 115	49.1	98	3	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	47.3	95	87 - 113	48.0	96	1	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	50.5	101	84 - 124	49.4	99	2	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	49.8	100	85 - 115	49.1	98	1	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	49.4	99	71 - 133	46.5	93	6	30
91-20-3	Naphthalene		0.175U	0.175	50.0	49.4	99	59 - 125	52.4	105	6	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	48.0	96	64 - 126	51.9	104	8	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	49.4	99	87 - 128	51.2	102	4	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	48.5	97	75 - 133	47.0	94	3	20
71-43-2	Benzene		0.049U	0.049	50.0	49.0	98	83 - 124	48.2	96	2	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	48.8	98	85 - 124	47.1	94	4	20
108-88-3	Toluene		0.078U	0.078	50.0	47.0	94	86 - 116	47.4	95	0.8	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	45.8	92	87 - 115	47.0	94	3	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	451883	**Client ID**	MB451883			LCS451883			LCSD451883		
Prep Batch	N/A	**GCAL ID**	926598			926599			926600		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/05/2011 17:29			03/05/2011 15:48			03/05/2011 16:11		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
Surrogate												
460-00-4	4-Bromofluorobenzene		48.2	96	50	49.5	99	84 - 120	48.3	97		
1868-53-7	Dibromofluoromethane		50.3	101	50	48.9	98	87 - 116	49.8	100		
2037-26-5	Toluene d8		49.6	99	50	47.5	95	86 - 112	48.5	97		
17060-07-0	1,2-Dichloroethane-d4		52.3	105	50	50.9	102	76 - 127	50	100		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451640			LCS451640			LCSD451640		
Prep Batch	451640	**GCAL ID**	925393			925394			925395		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/02/2011 12:30			03/02/2011 12:30			03/02/2011 12:30		
		Analytical Date	03/07/2011 08:56			03/07/2011 09:13			03/07/2011 09:30		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.303U		0.303								
120-12-7	Anthracene	0.316U		0.316								
56-55-3	Benzo(a)anthracene	0.316U		0.316								
92-87-5	Benzidine	3.92U		3.92								
205-99-2	Benzo(b)fluoranthene	0.217U		0.217								
207-08-9	Benzo(k)fluoranthene	0.236U		0.236								
191-24-2	Benzo(g,h,i)perylene	0.215U		0.215								
50-32-8	Benzo(a)pyrene	0.125U		0.125								
65-85-0	Benzoic acid	0.910U		0.910								
85-68-7	Butyl benzyl phthalate	0.165U		0.165								
111-91-1	Bis(2-Chloroethoxy)methane	0.290U		0.290								
111-44-4	Bis(2-Chloroethyl)ether	0.288U		0.288								
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U		0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U		0.191								
101-55-3	4-Bromophenyl phenyl ether	0.337U		0.337								
7005-72-3	4-Chlorophenyl phenyl ether	0.268U		0.268								
218-01-9	Chrysene	0.433U		0.433								
53-70-3	Dibenz(a,h)anthracene	0.217U		0.217								
132-64-9	Dibenzofuran	0.227U		0.227								
95-50-1	1,2-Dichlorobenzene	0.259U		0.259								
541-73-1	1,3-Dichlorobenzene	0.274U		0.274								
91-94-1	3,3'-Dichlorobenzidine	0.297U		0.297								
120-83-2	2,4-Dichlorophenol	0.217U		0.217								
84-66-2	Diethyl phthalate	0.303U		0.303								
105-67-9	2,4-Dimethylphenol	0.694U		0.694								
131-11-3	Dimethyl phthalate	0.255U		0.255								
117-84-0	Di-n-octyl phthalate	0.167U		0.167								
51-28-5	2,4-Dinitrophenol	2.60U		2.60								
606-20-2	2,6-Dinitrotoluene	0.352U		0.352								
206-44-0	Fluoranthene	0.267U		0.267								
86-73-7	Fluorene	0.288U		0.288								
118-74-1	Hexachlorobenzene	0.249U		0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451640			LCS451640			LCSD451640		
Prep Batch	451640	**GCAL ID**	925393			925394			925395		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/02/2011 12:30			03/02/2011 12:30			03/02/2011 12:30		
		Analytical Date	03/07/2011 08:56			03/07/2011 09:13			03/07/2011 09:30		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174								
67-72-1	Hexachloroethane	0.299U	0.299								
78-59-1	Isophorone	0.380U	0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157								
91-57-6	2-Methylnaphthalene	0.255U	0.255								
95-48-7	o-Cresol	0.329U	0.329								
91-20-3	Naphthalene	0.293U	0.293								
98-95-3	Nitrobenzene	0.329U	0.329								
88-75-5	2-Nitrophenol	0.357U	0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364								
85-01-8	Phenanthrene	0.304U	0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275								
100-51-6	Benzyl alcohol	0.355U	0.355								
99-09-2	3-Nitroaniline	0.226U	0.226								
100-01-6	4-Nitroaniline	0.221U	0.221								
84-74-2	Di-n-butyl phthalate	0.189U	0.189								
88-74-4	2-Nitroaniline	0.198U	0.198								
91-58-7	2-Chloronaphthalene	0.221U	0.221								
106-47-8	4-Chloroaniline	0.463U	0.463								
1319-77-3MP	m,p-Cresol	0.352U	0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98								
108-95-2	Phenol	0.150U	0.150	100	28.4	28	13 - 54	26.9	27	5	30
95-57-8	2-Chlorophenol	0.276U	0.276	100	71.9	72	44 - 103	69.5	70	3	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255	100	61.6	62	40 - 100	60.4	60	2	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304	100	80.5	81	51 - 104	79.0	79	2	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234	100	64.7	65	45 - 104	66.4	66	3	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234	100	72.6	73	53 - 105	71.6	72	1	30
83-32-9	Acenaphthene	0.268U	0.268	100	80.3	80	58 - 106	80.1	80	0.2	30
100-02-7	4-Nitrophenol	1.83U	1.83	100	28.2	28	13 - 55	26.3	26	7	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263	100	86.0	86	60 - 109	85.7	86	0.3	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451640			LCS451640			LCSD451640		
Prep Batch	451640	**GCAL ID**	925393			925394			925395		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/02/2011 12:30			03/02/2011 12:30			03/02/2011 12:30		
		Analytical Date	03/07/2011 08:56			03/07/2011 09:13			03/07/2011 09:30		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U		0.168	100	68.1	68	57 - 118	64.9	65	5	30
129-00-0	Pyrene	0.486U		0.486	100	95.1	95	60 - 113	91.0	91	4	30
Surrogate												
4165-60-0	Nitrobenzene-d5	43		86	50	43.1	86	52 - 120	41.8	84		
321-60-8	2-Fluorobiphenyl	39.6		79	50	42.1	84	16 - 128	39.5	79		
1718-51-0	Terphenyl-d14	53.8		108	50	55.2	110	43 - 138	52.4	105		
4165-62-2	Phenol-d5	28.3		28	100	31.6	32	10 - 120	30.1	30		
367-12-4	2-Fluorophenol	46.4		46	100	49.7	50	10 - 120	47.9	48		
118-79-6	2,4,6-Tribromophenol	81.5		82	100	91.2	91	20 - 120	90.5	91		

Analytical Batch	451931	**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch	451640	**GCAL ID**	21103021607			21103021609			21103021610		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/02/2011 12:30			03/02/2011 12:30			03/02/2011 12:30		
		Analytical Date	03/07/2011 12:35			03/07/2011 12:52			03/07/2011 13:08		
		Matrix	Water			Water			Water		
SW-846 8270C Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00		0.234	100	65.2	65	45 - 104	71.2	71	9	28
106-46-7	1,4-Dichlorobenzene	0.00		0.255	100	61.8	62	40 - 100	65.5	66	6	28
121-14-2	2,4-Dinitrotoluene	0.00		0.263	100	82.0	82	60 - 109	88.7	89	8	20
95-57-8	2-Chlorophenol	0.00		0.276	100	68.1	68	44 - 103	74.4	74	9	29
59-50-7	4-Chloro-3-methylphenol	0.00		0.234	100	72.4	72	53 - 105	79.6	80	9	24
100-02-7	4-Nitrophenol	0.00		1.83	100	26.9	27	13 - 55	33.2	33	21	31
83-32-9	Acenaphthene	0.00		0.268	100	77.2	77	58 - 106	82.3	82	6	21
87-86-5	Pentachlorophenol	0.00		0.168	100	68.2	68	57 - 118	72.2	72	6	26
108-95-2	Phenol	0.00		0.150	100	34.8	35	13 - 54	38.3	38	10	34
129-00-0	Pyrene	0.00		0.486	100	86.2	86	60 - 113	92.5	93	7	20
621-64-7	n-Nitrosodi-n-propylamine	0.00		0.304	100	75.7	76	51 - 104	80.4	80	6	28
Surrogate												
4165-60-0	Nitrobenzene-d5	44.8		90	50	42.5	85	52 - 120	44.4	89		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	AOCU-GW98	AOCU-GW98-MS	AOCU-GW98-MSD
Prep Batch	451640	**GCAL ID**	21103021607	21103021609	21103021610
Prep Method	3510C	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/02/2011 12:30	03/02/2011 12:30	03/02/2011 12:30
		Analytical Date	03/07/2011 12:35	03/07/2011 12:52	03/07/2011 13:08
		Matrix	Water	Water	Water

SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
321-60-8	2-Fluorobiphenyl	42.2	84	50	41.8	84	16 - 128	43.9	88		
1718-51-0	Terphenyl-d14	51.6	103	50	48.6	97	43 - 138	48.9	98		
4165-62-2	Phenol-d5	43.2	43	100	40	40	10 - 120	42.4	42		
367-12-4	2-Fluorophenol	55.6	56	100	50.1	50	10 - 120	54.5	55		
118-79-6	2,4,6-Tribromophenol	97.8	98	100	89.6	90	20 - 120	94.9	95		

General Chromatography Quality Control Summary

Analytical Batch	451813	**Client ID**	MB451642			LCS451642			LCSD451642		
Prep Batch	451642	**GCAL ID**	925403			925404			925405		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/03/2011 10:30			03/03/2011 10:30			03/03/2011 10:30		
		Analytical Date	03/03/2011 16:50			03/03/2011 17:08			03/03/2011 17:25		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	836	84	50 - 150	839	84	0.4	40
Surrogate												
84-15-1	o-Terphenyl		41.7	83	50	45.4	91	57 - 115	44.3	89		

Analytical Batch	451813	**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch	451642	**GCAL ID**	21103021607			21103021609			21103021610		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/03/2011 10:30			03/03/2011 10:30			03/03/2011 10:30		
		Analytical Date	03/03/2011 21:51			03/03/2011 22:09			03/03/2011 23:03		
		Matrix	Water			Water			Water		
Total Hydrocarbons Diesel Wate		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		21.3	44.2	1000	858	84	50 - 150	810	79	6	30
Surrogate												
84-15-1	o-Terphenyl		38.1	76	50	45.2	90	57 - 115	43.5	87		

General Chromatography Quality Control Summary

Analytical Batch 451860		**Client ID**	MB451860			LCS451860			LCSD451860		
Prep Batch N/A		**GCAL ID**	926496			926497			926498		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 13:21			03/07/2011 12:33			03/07/2011 12:57		
		Matrix	Water			Water			Water		
SW-846 8015B Modified		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
8006-61-9	Gasoline Range Organics		13.0U	13.0	500	505	101	63 - 126	499	100	1	25
Surrogate												
106-39-8	Bromochlorobenzene		26.2	87	30	29.2	97	49 - 136	28	93		

Analytical Batch 452040		**Client ID**	MB452040			LCS452040		
Prep Batch N/A		**GCAL ID**	927286			927287		
		Sample Type	Method Blank			LCS		
		Analytical Date	03/08/2011 15:17			03/08/2011 14:53		
		Matrix	Water			Water		
SW-846 8015B Modified		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
8006-61-9	Gasoline Range Organics		13.0U	13.0	500	501	100	63 - 126
Surrogate								
106-39-8	Bromochlorobenzene		25.9	86	30	28.3	94	49 - 136

Analytical Batch 452040		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD			
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	03/08/2011 17:44			03/08/2011 18:08			03/08/2011 18:32			
		Matrix	Water			Water			Water			
SW-846 8015B Modified Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
8006-61-9	Gasoline Range Organics		0.00	13.0	500	458	92	67 - 171	449	90	2	31
Surrogate												
106-39-8	Bromochlorobenzene		25.9	86	30	28.8	96	49 - 136	28.8	96		

General Chromatography Quality Control Summary

Analytical Batch	451814	**Client ID**	MB451643			LCS451643			LCSD451643		
Prep Batch	451643	**GCAL ID**	925406			925407			925408		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/03/2011 10:30			03/03/2011 10:30			03/03/2011 10:30		
		Analytical Date	03/03/2011 16:50			03/03/2011 17:43			03/03/2011 18:01		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1430	71	50 - 150	1620	81	13	40
Surrogate												
84-15-1	o-Terphenyl		39.2	78	50	40	80	57 - 115	49.2	98		

Analytical Batch	451814	**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch	451643	**GCAL ID**	21103021607			21103021609			21103021610		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/03/2011 10:30			03/03/2011 10:30			03/03/2011 10:30		
		Analytical Date	03/03/2011 21:51			03/03/2011 23:20			03/03/2011 23:38		
		Matrix	Water			Water			Water		
Total Hydrocarbons Oil Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		8.00	45.7	2000	1400	70	50 - 150	1450	72	4	30
Surrogate												
84-15-1	o-Terphenyl		35.8	72	50	39.6	79	57 - 115	44.7	89		

Inorganics Quality Control Summary

Analytical Batch	451556	**Client ID**	MB451634	LCS451634
Prep Batch	451634	**GCAL ID**	925350	925351
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	7470A	**Prep Date**	03/02/2011 11:03	03/02/2011 11:03
		Analytical Date	03/07/2011 17:09	03/07/2011 17:11
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00542	108	88 - 111

Analytical Batch	451556	**Client ID**	AOCU-GW98-M	AOCU-GW98-M-MS	AOCU-GW98-M-MSD
Prep Batch	451634	**GCAL ID**	21103021628	21103021629	21103021630
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	03/02/2011 11:03	03/02/2011 11:03	03/02/2011 11:03
	Dissolved	**Analytical Date**	03/07/2011 17:13	03/07/2011 17:14	03/07/2011 17:16
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000081	0.00500	0.00412	82	75 - 125	0.00406	81	1	10

Analytical Batch	452103	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451729	**GCAL ID**	21103021632	925878	925879
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	03/03/2011 12:00	03/03/2011 12:00	03/03/2011 12:00
		Analytical Date	03/09/2011 14:20	03/09/2011 14:25	03/09/2011 14:27
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000081	0.00500	0.00270	**54***	75 - 125	0.00254	**51***	6	10

Inorganics Quality Control Summary

Analytical Batch	452210	**Client ID**	MB451729	LCS451729
Prep Batch	451729	**GCAL ID**	925876	925877
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	03/03/2011 12:00	03/03/2011 12:00
		Analytical Date	03/09/2011 14:17	03/10/2011 14:21
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00516	103	88 - 111

Inorganics Quality Control Summary

Analytical Batch	451962	**Client ID**	MB451633	LCS451633
Prep Batch	451633	**GCAL ID**	925348	925349
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/02/2011 11:30	03/02/2011 11:30
		Analytical Date	03/07/2011 16:42	03/07/2011 16:49
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.74	95	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.46	93	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.48	96	88 - 109
7440-39-3	Barium	0.00081B	0.00011	0.50	0.47	95	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.46	92	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.48	96	88 - 111
7440-70-2	Calcium	0.063B	0.026	5.00	4.63	93	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.47	93	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.47	93	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.45	91	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.59	92	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.48	95	89 - 109
7439-95-4	Magnesium	0.014U	0.014	5.00	4.64	93	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.47	93	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.46	93	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	10.7	107	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.48	95	90 - 110
7440-22-4	Silver	0.00060U	0.00060	0.50	0.47	93	86 - 120
7440-23-5	Sodium	0.39B	0.051	20.0	20.8	104	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.48	96	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.46	92	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.47	94	84 - 111

Inorganics Quality Control Summary

Analytical Batch	451962	**Client ID**	AOCU-GW98-M			AOCU-GW98-M-MS			AOCU-GW98-M-MSD		
Prep Batch	451633	**GCAL ID**	21103021628			21103021629			21103021630		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	03/02/2011 11:30			03/02/2011 11:30			03/02/2011 11:30		
		Analytical Date	03/07/2011 16:55			03/07/2011 17:03			03/07/2011 17:11		
		Matrix	Water			Water			Water		
SW-846 6010B Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		7890	1.29	20.0	7950	**280***	70 - 203	8170	**1360***	3	25

Analytical Batch	452019	**Client ID**	MB451727			LCS451727		
Prep Batch	451727	**GCAL ID**	925872			925873		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	03/03/2011 12:01			03/03/2011 12:01		
		Analytical Date	03/08/2011 14:23			03/08/2011 14:31		
		Matrix	Water			Water		
SW-846 6010B Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		0.044U	0.044	5.00	4.65	93	87 - 111
7440-36-0	Antimony		0.0040U	0.0040	0.50	0.45	90	88 - 108
7440-38-2	Arsenic		0.0025U	0.0025	0.50	0.46	92	88 - 109
7440-39-3	Barium		0.00067B	0.00011	0.50	0.48	96	92 - 112
7440-41-7	Beryllium		0.00011U	0.00011	0.50	0.48	96	89 - 113
7440-43-9	Cadmium		0.00011U	0.00011	0.50	0.46	93	88 - 111
7440-70-2	Calcium		0.11	0.026	5.00	4.50	90	90 - 111
7440-47-3	Chromium		0.00034U	0.00034	0.50	0.44	**89***	90 - 113
7440-48-4	Cobalt		0.00040U	0.00040	0.50	0.44	89	89 - 111
7440-50-8	Copper		0.0014U	0.0014	0.50	0.44	87	86 - 112
7439-89-6	Iron		0.038U	0.038	5.00	4.44	89	89 - 116
7439-92-1	Lead		0.0014U	0.0014	0.50	0.45	90	89 - 109
7439-95-4	Magnesium		0.047B	0.014	5.00	4.92	98	92 - 113
7439-96-5	Manganese		0.0013B	0.0012	0.50	0.48	96	90 - 110
7440-02-0	Nickel		0.00096U	0.00096	0.50	0.44	89	89 - 111
7440-09-7	Potassium		0.053U	0.053	10.0	9.56	96	89 - 114
7782-49-2	Selenium		0.0043U	0.0043	0.50	0.45	90	90 - 110
7440-22-4	Silver		0.00086B	0.00060	0.50	0.47	94	86 - 120
7440-23-5	Sodium		0.66B	0.051	20.0	19.6	98	90 - 117
7440-28-0	Thallium		0.0018U	0.0018	0.50	0.45	90	88 - 108
7440-62-2	Vanadium		0.00082U	0.00082	0.50	0.48	96	91 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB451727	LCS451727
Prep Batch	451727	**GCAL ID**	925872	925873
Prep Method	SW-846 3005 Dissolved	**Sample Type**	Method Blank	LCS
		Prep Date	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/08/2011 14:23	03/08/2011 14:31
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-66-6	Zinc	0.0039B	0.0027	0.50	0.44	88	84 - 111

Analytical Batch	452019	**Client ID**	AOCU-GW98-M	AOCU-GW98-M-MS	AOCU-GW98-M-MSD
Prep Batch	451633	**GCAL ID**	21103021628	21103021629	21103021630
Prep Method	SW-846 3005 Dissolved	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/02/2011 11:30	03/02/2011 11:30	03/02/2011 11:30
		Analytical Date	03/08/2011 12:58	03/08/2011 13:05	03/08/2011 13:12
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.047	0.22	5.00	4.68	93	83 - 119	4.59	91	2	25
7440-36-0	Antimony	0.022	0.020	0.50	0.53	102	81 - 124	0.54	103	1	25
7440-38-2	Arsenic	0.025	0.013	0.50	0.53	102	84 - 124	0.56	108	6	25
7440-39-3	Barium	0.0	0.00055	0.50	0.46	93	85 - 120	0.47	95	2	25
7440-41-7	Beryllium	0.0	0.00057	0.50	0.47	93	79 - 121	0.48	96	3	25
7440-43-9	Cadmium	0.0	0.00055	0.50	0.45	91	82 - 119	0.47	93	3	25
7440-70-2	Calcium	638	0.13	5.00	618	**-400***	48 - 153	635	**-70***	3	25
7440-47-3	Chromium	0.0092	0.0017	0.50	0.46	89	73 - 135	0.46	91	2	25
7440-48-4	Cobalt	0.0	0.0020	0.50	0.46	93	82 - 119	0.48	95	3	25
7440-50-8	Copper	0.017	0.0069	0.50	0.51	99	82 - 129	0.52	101	2	25
7439-89-6	Iron	0.0	0.19	5.00	4.60	92	52 - 155	4.60	92	0.1	25
7439-92-1	Lead	0.0	0.0070	0.50	0.44	88	62 - 146	0.44	88	0.1	25
7439-95-4	Magnesium	1820	0.072	5.00	1750	**-2000***	62 - 146	1800	**-600***	3	25
7439-96-5	Manganese	0.017	0.0062	0.50	0.49	95	79 - 121	0.50	97	2	25
7440-02-0	Nickel	0.016	0.0048	0.50	0.47	90	84 - 120	0.47	92	1	25
7440-09-7	Potassium	31.2	0.26	10.0	40.4	92	76 - 132	42.0	109	4	25
7782-49-2	Selenium	0.0	0.022	0.50	0.52	104	71 - 140	0.54	108	3	25
7440-22-4	Silver	0.0	0.0030	0.50	0.51	101	75 - 141	0.52	104	3	25
7440-28-0	Thallium	0.0	0.0088	0.50	0.46	92	90 - 116	0.47	93	1	25
7440-62-2	Vanadium	0.0	0.0041	0.50	0.32	**65***	85 - 120	0.32	**65***	0.6	25
7440-66-6	Zinc	0.0	0.014	0.50	0.42	83	60 - 137	0.51	101	19	25

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451727	**GCAL ID**	21103021632	925874	925875
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/03/2011 12:01	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/08/2011 14:37	03/08/2011 14:44	03/08/2011 14:51
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.22	5.00	4.83	97	83 - 119	4.53	91	6	25
7440-36-0	Antimony	0.031	0.020	0.50	0.55	104	81 - 124	0.55	104	0.2	25
7440-38-2	Arsenic	0.027	0.013	0.50	0.54	103	84 - 124	0.52	100	3	25
7440-39-3	Barium	0.0	0.00055	0.50	0.47	94	85 - 120	0.46	92	2	25
7440-41-7	Beryllium	0.00014	0.00057	0.50	0.48	96	79 - 121	0.46	92	4	25
7440-43-9	Cadmium	0.0	0.00055	0.50	0.46	92	82 - 119	0.43	86	7	25
7440-70-2	Calcium	801	0.13	5.00	828	**532***	48 - 153	800	**-20***	3	25
7440-47-3	Chromium	0.010	0.0017	0.50	0.47	91	73 - 135	0.45	88	4	25
7440-48-4	Cobalt	0.0	0.0020	0.50	0.47	93	82 - 119	0.45	90	4	25
7440-50-8	Copper	0.032	0.0069	0.50	0.55	104	82 - 129	0.55	104	0.3	25
7439-89-6	Iron	0.0	0.19	5.00	4.59	92	52 - 155	4.30	86	7	25
7439-92-1	Lead	0.0	0.0070	0.50	0.43	86	62 - 146	0.42	83	3	25
7439-95-4	Magnesium	1690	0.072	5.00	1750	**1090***	62 - 146	1690	**-100***	4	25
7439-96-5	Manganese	0.39	0.0062	0.50	0.88	99	79 - 121	0.85	93	3	25
7440-02-0	Nickel	0.018	0.0048	0.50	0.47	91	84 - 120	0.46	88	3	25
7440-09-7	Potassium	73.6	0.26	10.0	90.6	**170***	76 - 132	87.7	**141***	3	25
7782-49-2	Selenium	0.014	0.022	0.50	0.55	108	71 - 140	0.49	96	11	25
7440-22-4	Silver	0.0	0.0030	0.50	0.54	107	75 - 141	0.52	104	3	25
7440-28-0	Thallium	0.0	0.0088	0.50	0.43	**86***	90 - 116	0.40	**80***	7	25
7440-62-2	Vanadium	0.0	0.0041	0.50	0.31	**61***	85 - 120	0.29	**58***	6	25
7440-66-6	Zinc	0.0	0.014	0.50	0.42	85	60 - 137	0.40	81	5	25

Analytical Batch	452019	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451727	**GCAL ID**	21103021632	925874	925875
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/03/2011 12:01	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/09/2011 08:33	03/09/2011 08:41	03/09/2011 08:49
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	13500	2.57	20.0	13500	**-50***	70 - 203	13500	**-100***	0.1	25

General Chemistry Quality Control Summary

Analytical Batch 451638	**Client ID**	MB451638			LCS451638		
Prep Batch N/A	**GCAL ID**	925386			925387		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/02/2011 14:00			03/02/2011 14:00		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1020	102	90 - 110

Analytical Batch 451638	**Client ID**	AOCU-GW98		AOCU-GW98-DUP		
Prep Batch N/A	**GCAL ID**	21103021607		21103021611		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/02/2011 14:00		03/02/2011 14:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	30200	100	30300	0.33	5

Analytical Batch 451638	**Client ID**	SRLA QUENCH WATER		925299DUP		
Prep Batch N/A	**GCAL ID**	21103021301		925388		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/02/2011 14:00		03/02/2011 14:00		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	5995	10.0	5970	0.42	5

Analytical Batch 451765	**Client ID**	MB451765			LCS451765		
Prep Batch N/A	**GCAL ID**	926040			926041		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/03/2011 15:30			03/03/2011 15:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	942	94.2	90 - 110

General Chemistry Quality Control Summary

Analytical Batch 451765	**Client ID**	U43010B		925733DUP		
Prep Batch N/A	**GCAL ID**	21103030401		926042		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/03/2011 15:30		03/03/2011 15:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
WET-035 Total Dissolved Solids(TDS)		3276	10.0	3230	1.4	5

General Chemistry Quality Control Summary

Analytical Batch 451624	**Client ID**	MB451624			LCS451624		
Prep Batch N/A	**GCAL ID**	925254			925255		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/02/2011 10:10			03/02/2011 10:11		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003B	0.003	0.500	0.525	105	89.5 -110.5

Analytical Batch 451624	**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD			
Prep Batch N/A	**GCAL ID**	21103021607			21103021609			21103021610			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/02/2011 11:58			03/02/2011 11:59			03/02/2011 12:00			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		5.66	0.052	10.0	16.7	110	89.5 -110.5	16.6	109	0.6	25

Analytical Batch 451624	**Client ID**	EASC-2, PD-05			925139MS			925139MSD			
Prep Batch N/A	**GCAL ID**	21103013201			925256			925257			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/02/2011 10:15			03/02/2011 10:16			03/02/2011 10:18			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.000	0.003	0.500	0.551	110	89.5 -110.5	0.553	**111***	0.3	25

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 022811-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW96	AOCU-GW96	28022011	1030	-	N	1	WG	10	X	X	X	X		X	X										2 1
AOCU-GW100	AOCU-GW100	28022011	0915	-	N	1	WG	10	X	X	X	X		X	X										2 2
Trip Blank		28022011	0915	-	TB	1	WQ	3	X														HA-0285050		2 3
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	2/28/11	1400			
2.	[signature]	3-2-11	920	[signature]	3-2-11	920
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 38

Airbill Number: 7944 7226 1765

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 022811-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW82	AOCU-GW82	28022011	1015	-	N	1	WG	10	X	X	X	X		X	X									4	1
AOCU-GW83	AOCU-GW83	28022011	0920	-	N	1	WG	10	X	X	X	X		X	X									5	1
Trip Blank		28022011	0920	-	TB	1	WQ	3	X														6 HA	0285050	1
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	2/28/11	1400			
2.	[illegible]	3-2-11	920	[illegible]	3-2-11	920
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.: 1.6

Method of Shipment: FedEx Express

Airbill Number: 7968 0959 3050

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Project No: 8090006.02.010

COC Number(1): 0228/1-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW80	AOCU-GW80	28022011	1100	-	N	1	WG	10	X	X	X	X		X	X								7	3
AOCU-GW93	AOCU-GW93	28022011	1200	-	N	1	WG	10	X	X	X	X		X	X								8	3
Trip Blank		28022011	1100	-	TB	1	WQ	3	X													9 HA	0285050	3
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	2/28/11	1400	1.		
2. Pzby	3-2-11	920	2. [illegible]	3-2-11	920
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 3.2

Airbill Number: 7944 7225 1742

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW77	AOCU-GW77	28022011	1410	-	N	1	WG	10	X	X	X	X		X	X								1	1
AOCU-GW78	AOCU-GW78	28022011	1320	-	N	1	WG	10	X	X	X	X		X	X								2	1
Trip Blank		28022011	1320	-	TB	1	WQ	3	X													3 HA-0285050		1
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/1/11	1400	1.		
2. Eddy	3-2-11	920	2. AC	3-2-11	920
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 3-3

Airbill Number: 7944 7788 0780

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW75A	AOCU-GW75A	28022011	1515	-	FD	1	WG	10	X	X	X	X		X	X						4			2
AOCU-GW75	AOCU-GW75	28022011	1515	-	N	1	WG	10	X	X	X	X		X	X						5			2
Trip Blank		28022011	1515	-	TB	1	WQ	3	X												6	HA-0285050		2
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	3/1/11	1400			
2.	FDM	3-2-11	420	M	3-2-11	420
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 43

Airbill Number: 794477870643

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW/4771/2110302 16/3-9-11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW98	AOCU-GW98	28022011	1500	-	N	1	WG	10	X	X	X	X		X	X							7			5
Trip Blank		28022011	1500	-	TB	1	WQ	3	X													8	HA	0285050	5
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/1/11	1400	1.		
2. [illegible]	3-2-11	920	2. [illegible]	3-2-11	920
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 25

Airbill Number: 794477848652

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW/4771/21103021G/3-9-11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW98-MS	AOCU-GW98-MS	28022011	1500	-	MS	1	WG	10	X	X	X	X		X	X							9		3
AOCU-GW98-MSD	AOCU-GW98-MSD	28022011	1500	-	SD	1	WG	10	X	X	X	X		X	X							10, 11		3
Trip Blank		28022011	1500	-	TB	1	WQ	3	X													9a 12		3
				-																		HA	D25611	
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/1/11	1400			
2.	[signature]	3-2-11	9a	[signature]	3-2-11	9a
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 2.1

Airbill Number: 7968 1523 3626

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW /14771/21103021c/3-9-11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW89	AOCU-GW89	01032011	0900	-	N	1	WG	10	X	X	X	X		X	X								13		6
AOCU-GW91	AOCU-GW91	01032011	1000	-	N	1	WG	10	X	X	X	X		X	X								14		6
Trip Blank		01032011	0900	-	TB	1	WQ	3	X														15 HA-028505a		6
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	3/1/11	1400			
2.	RM	3-2-11	920	AL	3-2-11	920
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.9

Airbill Number: 794477839680

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW/~~4771~~ 4771/211030216/3-9-11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030111 - 07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW86	AOCU-GW86	01032011	1055	-	N	1	WG	10	X	X	X	X		X	X						16			7
AOCU-GW84	AOCU-GW84	01032011	0920	-	N	1	WG	10	X	X	X	X		X	X						17			7
Trip Blank		01032011	0920	-	TB	1	WQ	3	X												18	HA-0285050		7
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/1/11	1400	1.		
2. [signature]	3-2-11	9an	2. [signature]	3-2-11	9an
3.			3.		

Sample Delivery Details / Laboratory Receipt 3.1

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.:

Airbill Number: 7944 7783 4678

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW /4771/21030216/3-G-4

Project No: 8090006.02.010

COC Number(1): 030111-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW75-M	AOCU-GW75	28022011	~~1515~~	1516 -	N	1	WG	1					X											19	4
AOCU-GW75A-M	AOCU-GW75A	28022011	~~1515~~	1516 -	FD	1	WG	1					X											20	4
AOCU-GW77-M	AOCU-GW77	2822011	~~1410~~	1411 -	N	1	WG	1					X											21	4
AOCU-GW78-M	AOCU-GW78	2822011	~~1320~~	1321 -	N	1	WG	1					X											22	4
AOCU-GW80-M	AOCU-GW80	2822011	~~1100~~	1101 -	N	1	WG	1					X											23	4
AOCU-GW82-M	AOCU-GW82	2822011	~~1015~~	1016 -	N	1	WG	1					X											24	4
AOCU-GW83-M	AOCU-GW83	2822011	~~0920~~	0921 -	N	1	WG	1					X											25	4
AOCU-GW93-M	AOCU-GW93	2822011	~~1200~~	1201 -	N	1	WG	1					X											26	4
AOCU-GW96-M	AOCU-GW96	2822011	~~1030~~	1031 -	N	1	WG	1					X											27	4
AOCU-GW98-M	AOCU-GW98	2822011	~~1500~~	1501 -	N	1	WG	1					X											28	4
AOCU-GW98-MS	AOCU-GW98-MS	2822011	~~1500~~	1501 -	MS	1	WG	1					X											29	4

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J H Moore	3/1/11	1400	1.		
2. Beck	3-2-11	92	2. K	3/2/11	92
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 31

Airbill Number: 7968 1522 5043

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01; if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW/4771/21030216/3-9-4

Project No: 8090006.02.010

COC Number(1): 030111-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW98-MSD	AOCU-GW98-MSD	28022011	~~1300~~ 1301	-	SD	1	WG	1					X										31	Y
AOCU-GW100-M	AOCU-GW100	28022011	~~0915~~ 0916	-	N	1	WG	1					X										31	Y
				-																				
				-																				
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				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	3/1/11	1400			
2.	Fedex	3-2-11	9AM	M	3.2.11.	9AM
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 31

Airbill Number: 7968 1522 5043

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW /4771 /211030216

Project No: 8090006.02.010

COC Number(1): 030211-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW68	AOCU-GW68	01032011	1530	-	N	1	WG	1					X												4
AOCU-GW69	AOCU-GW69	01032011	1250	-	N	1	WG	1					X												4
AOCU-GW69A	AOCU-GW69A	01032011	1250	-	FD	1	WG	1					X												4
AOCU-GW71	AOCU-GW71	01032011	1420	-	N	1	WG	1					X												4
AOCU-GW72	AOCU-GW72	01032011	1400	-	N	1	WG	1					X												4
AOCU-GW73	AOCU-GW73	01032011	1300	-	N	1	WG	1					X												4
AOCU-GW84-MX ✓	AOCU-GW84	01032011	~~0920~~ 0921	-	N	1	WG	1					X											32	4
AOCU-GW86-MX	AOCU-GW86	01032011	~~1055~~ 1056	-	N	1	WG	1					X											33	4
AOCU-GW89-MX	AOCU-GW89	01032011	~~0900~~ 0901	-	N	1	WG	1					X											34	4
AOCU-GW91-MX	AOCU-GW91	01032011	~~1000~~ 1001	-	N	1	WG	1					X											35	4

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/2/11	1400	1.		
2. [signature]	3-3-11	850	2. [signature]	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 3.2

Airbill Number: 796820585377

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples are in the water only

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211030216

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Raborn, Michelle

Received Date/Time: 3/3/2011 8:50:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 11

Cooler tracking numbers(s): 7944 7784 8652 7968 7787 0643 7944 7783 9680 7968 1522 5043 7944 7788 0780 7944 7225 1742 7944 7226 1765 7968 0959 3050 7944 7783 4675 7968 1523 3626 7968 2058 5377

Cooler temperature(s): 2.6 1.6 3.8 3.3 4.3 2.5 1.9 3.1 3.1 3.7

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☐ N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 04/04/2011

GCAL Report 211030309

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Customer NationView LLC

Project AOC-U RFI Investigarion

CASE NARRATIVE

Client: NationView LLC **Report:** 211030309

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 04/04/11. The data was revised to include estimated values in the report.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 451890Acrylonitrile exhibited a % D value greater than 40 in the ICV. Acrylonitrile was not detected in any samples.

In the SW-846 8260B analysis for analytical batch 451797, the MS/MSD exhibited recovery failures. The LCS and/or LCSD recoveries are above the upper control limit for Acrylonitrile. This compound was not detected in the associated samples. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples. Acrylonitrile exhibited a % D value greater than 40 in the CCV and ICV. Acrylonitrile was not detected in any samples.

In the SW-846 8260B analysis for analytical batch 451901, the MS/MSD exhibited recovery and RPD failures. The LCS/LCSD recoveries are acceptable. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples. Acrylonitrile exhibited a % D value greater than 40 in the ICV. Acrylonitrile was not detected in any samples.

SEMI-VOLATILES MASS SPECTROMETRY

2,4-Dinitrophenol was recovered high in the ICV at 121%. There are no hits for 2,4-Dinitrophenol in any of the associated samples.

METALS

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103030918 (AOCU-GW68), 21103030919 (AOCU-GW69), 21103030920 (AOCU-GW69-A), 21103030921 (AOCU-GW71), 21103030922 (AOCU-GW72), 21103030923 (AOCU-GW73), 21103030926 (AOCU-GW59), 21103030927 (AOCU-GW64), 21103030928 (AOCU-GW66), 21103030924 (AOCU-GW56) and 21103030925 (AOCU-GW57) . This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 451727, the MS and/or MSD recovery is outside the control limits for Thallium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 95%. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration. Calcium was detected in the method blank. The concentration was insignificant as compared to the concentration detected in the associated sample(s). The MS and/or MSD recovery is outside the control limits for Vanadium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. Chromium was recovered outside of the established control limits for the LCS and/or LCSD.

In the SW-846 7470A Dissolved analysis for prep batches 451809 and 451729, the MS and/or MSD recovery

is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B Dissolved analysis for prep batch 451808, the MS and/or MSD recovery is outside the control limits for Vanadium and Copper. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. The MS recovery is not applicable for Calcium, Magnesium and Potassium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21103030907 (AOCU-GW69), 21103030908 (AOCU-GW69-A), 21103030901 (AOCU-GW73), 21103030905 (AOCU-GW71), 21103030904 (AOCU-GW68), 21103030913 (AOCU-GW64), 21103030910 (AOCU-GW57), 21103030914 (AOCU-GW66) and 21103030916 (AOCU-GW56) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SM 2540 C analysis, samples 21103030901 (AOCU-GW73), 21103030902 (AOCU-GW72), 21103030904 (AOCU-GW68), 21103030905 (AOCU-GW71), 21103030907 (AOCU-GW69), 21103030908 (AOCU-GW69-A), 21103030910 (AOCU-GW57), 21103030911 (AOCU-GW59), 21103030913 (AOCU-GW64), 21103030914 (AOCU-GW66) and 21103030916 (AOCU-GW56) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211030309

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	AOCU-GW73	Water	03/01/2011 13:00	03/03/2011 08:50
21103030902	AOCU-GW72	Water	03/01/2011 14:00	03/03/2011 08:50
21103030903	TRIP BLANK	Water	03/01/2011 13:00	03/03/2011 08:50
21103030904	AOCU-GW68	Water	03/01/2011 15:30	03/03/2011 08:50
21103030905	AOCU-GW71	Water	03/01/2011 14:20	03/03/2011 08:50
21103030906	TRIP BLANK	Water	03/01/2011 14:20	03/03/2011 08:50
21103030907	AOCU-GW69	Water	03/01/2011 12:50	03/03/2011 08:50
21103030908	AOCU-GW69-A	Water	03/01/2011 12:50	03/03/2011 08:50
21103030909	TRIP BLANK	Water	03/01/2011 12:50	03/03/2011 08:50
21103030910	AOCU-GW57	Water	03/02/2011 10:00	03/03/2011 08:50
21103030911	AOCU-GW59	Water	03/02/2011 09:15	03/03/2011 08:50
21103030912	TRIP BLANK	Water	03/02/2011 09:15	03/03/2011 08:50
21103030913	AOCU-GW64	Water	03/02/2011 09:30	03/03/2011 08:50
21103030914	AOCU-GW66	Water	03/02/2011 10:30	03/03/2011 08:50
21103030915	TRIP BLANK	Water	03/02/2011 09:30	03/03/2011 08:50
21103030916	AOCU-GW56	Water	03/02/2011 10:40	03/03/2011 08:50
21103030917	TRIP BLANK	Water	03/02/2011 10:40	03/03/2011 08:50
21103030918	AOCU-GW68-M	Water	03/01/2011 15:31	03/03/2011 08:50
21103030919	AOCU-GW69-M	Water	03/01/2011 12:51	03/03/2011 08:50
21103030920	AOCU-GW69-A-M	Water	03/01/2011 12:51	03/03/2011 08:50
21103030921	AOCU-GW71-M	Water	03/01/2011 14:21	03/03/2011 08:50
21103030922	AOCU-GW72-M	Water	03/01/2011 14:01	03/03/2011 08:50
21103030923	AOCU-GW73-M	Water	03/01/2011 13:01	03/03/2011 08:50
21103030924	AOCU-GW56-M	Water	03/02/2011 10:41	03/04/2011 09:10
21103030925	AOCU-GW57-M	Water	03/02/2011 10:01	03/04/2011 09:10
21103030926	AOCU-GW59-M	Water	03/02/2011 09:16	03/04/2011 09:10
21103030927	AOCU-GW64-M	Water	03/02/2011 09:31	03/04/2011 09:10
21103030928	AOCU-GW66-M	Water	03/02/2011 10:31	03/04/2011 09:10

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	**AOCU-GW73**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 07:40	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	**AOCU-GW73**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 07:40	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.3	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 07:40	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	**AOCU-GW73**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:22	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	**AOCU-GW73**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:22	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.7	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	42.1	ug/L	84	16 - 128
1718-51-0	Terphenyl-d14	50	48.8	ug/L	98	43 - 138
4165-62-2	Phenol-d5	100	40.8	ug/L	41	10 - 120
367-12-4	2-Fluorophenol	100	53	ug/L	53	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.8	ug/L	91	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 17:16	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.4	ug/L	77	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 21:20	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.6	ug/L	89	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030901	**AOCU-GW73**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 17:16	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36	ug/L	72	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**65300**	**250**	**250**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/03/2011 12:38	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**7.17**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030902	**AOCU-GW72**	Water	03/01/2011 14:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:03	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030902	**AOCU-GW72**	Water	03/01/2011 14:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:03	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:03	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030902	**AOCU-GW72**	Water	03/01/2011 14:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:39	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030902	**AOCU-GW72**	Water	03/01/2011 14:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:39	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.6	ug/L	83	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.1	ug/L	78	16 - 128
1718-51-0	Terphenyl-d14	50	50.3	ug/L	101	43 - 138
4165-62-2	Phenol-d5	100	43.6	ug/L	44	10 - 120
367-12-4	2-Fluorophenol	100	52.3	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	92.1	ug/L	92	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 17:34	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.7	ug/L	77	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 21:44	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.7	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030902	**AOCU-GW72**	Water	03/01/2011 14:00	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 17:34	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36.3	ug/L	73	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**62500**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/03/2011 12:39	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.011**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030903	**TRIP BLANK**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:25	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030903	**TRIP BLANK**	Water	03/01/2011 13:00	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:25	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51.9	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030904	**AOCU-GW68**	Water	03/01/2011 15:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:48	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030904	**AOCU-GW68**	Water	03/01/2011 15:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:48	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 08:48	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030904	**AOCU-GW68**	Water	03/01/2011 15:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:56	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030904	**AOCU-GW68**	Water	03/01/2011 15:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 15:56	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	40.4	ug/L	81	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.1	ug/L	78	16 - 128
1718-51-0	Terphenyl-d14	50	49.7	ug/L	99	43 - 138
4165-62-2	Phenol-d5	100	40.3	ug/L	40	10 - 120
367-12-4	2-Fluorophenol	100	48.8	ug/L	49	10 - 120
118-79-6	2,4,6-Tribromophenol	100	89.5	ug/L	90	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 17:51	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.9	ug/L	76	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 22:08	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.5	ug/L	88	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030904	**AOCU-GW68**	Water	03/01/2011 15:30	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 17:51	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.6	ug/L	71	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**66800**	**250**	**250**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/03/2011 12:42	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**54.3**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030905	**AOCU-GW71**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 09:11	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	**Benzene**	**1.63J**	**5**	**0.049**	**ug/L**
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030905	**AOCU-GW71**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 09:11	CLH	451797

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	**Toluene**	**2.31J**	**5**	**0.078**	**ug/L**
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 09:11	CLH	451900

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030905	**AOCU-GW71**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:12	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030905	**AOCU-GW71**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:12	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.2	ug/L	88	52 - 120
321-60-8	2-Fluorobiphenyl	50	43.2	ug/L	86	16 - 128
1718-51-0	Terphenyl-d14	50	53.8	ug/L	108	43 - 138
4165-62-2	Phenol-d5	100	44.5	ug/L	45	10 - 120
367-12-4	2-Fluorophenol	100	55.6	ug/L	56	10 - 120
118-79-6	2,4,6-Tribromophenol	100	94.9	ug/L	95	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 18:09	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38	ug/L	76	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 22:32	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030905	**AOCU-GW71**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 18:09	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.7	ug/L	71	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**41400**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/03/2011 12:40	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**37.2**	**0.500**	**0.130**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030906	**TRIP BLANK**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 16:46	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030906	**TRIP BLANK**	Water	03/01/2011 14:20	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 16:46	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030907	**AOCU-GW69**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:09	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030907	**AOCU-GW69**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:09	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	50.3	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.2	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:09	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030907	**AOCU-GW69**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:29	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030907	**AOCU-GW69**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:29	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	38.9	ug/L	78	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.6	ug/L	75	16 - 128
1718-51-0	Terphenyl-d14	50	48.2	ug/L	96	43 - 138
4165-62-2	Phenol-d5	100	36.4	ug/L	36	10 - 120
367-12-4	2-Fluorophenol	100	46	ug/L	46	10 - 120
118-79-6	2,4,6-Tribromophenol	100	79	ug/L	79	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 18:26	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.6	ug/L	77	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 22:56	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.7	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030907	**AOCU-GW69**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 18:26	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36.3	ug/L	73	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**54500**	**250**	**250**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	03/03/2011 13:08	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**42.5**	**2.00**	**0.520**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030908	**AOCU-GW69-A**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:31	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030908	**AOCU-GW69-A**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:31	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	48.5	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:31	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030908	**AOCU-GW69-A**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:46	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030908	**AOCU-GW69-A**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 16:46	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	39.6	ug/L	79	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.1	ug/L	76	16 - 128
1718-51-0	Terphenyl-d14	50	49	ug/L	98	43 - 138
4165-62-2	Phenol-d5	100	37.5	ug/L	38	10 - 120
367-12-4	2-Fluorophenol	100	48.5	ug/L	49	10 - 120
118-79-6	2,4,6-Tribromophenol	100	80.4	ug/L	80	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 19:19	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.1	ug/L	76	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 23:24	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.6	ug/L	82	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030908	**AOCU-GW69-A**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 19:19	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.8	ug/L	72	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**67300**	**250**	**250**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/03/2011 12:37	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**46.6**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030909	**TRIP BLANK**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:54	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030909	**TRIP BLANK**	Water	03/01/2011 12:50	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 17:54	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.2	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030910	**AOCU-GW57**	Water	03/02/2011 10:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:17	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030910	**AOCU-GW57**	Water	03/02/2011 10:00	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:17	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50.2	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.5	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:17	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030910	**AOCU-GW57**	Water	03/02/2011 10:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:03	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030910	**AOCU-GW57**	Water	03/02/2011 10:00	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:03	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	39.4	ug/L	79	52 - 120
321-60-8	2-Fluorobiphenyl	50	37	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	33.1	ug/L	66	43 - 138
4165-62-2	Phenol-d5	100	48.3	ug/L	48	10 - 120
367-12-4	2-Fluorophenol	100	51.9	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	77.5	ug/L	78	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 19:37	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41.8	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 23:48	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.2	ug/L	81	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030910	**AOCU-GW57**	Water	03/02/2011 10:00	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 19:37	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.3	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**168000**	**1000**	**1000**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	03/03/2011 12:48	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**140**	**5.00**	**1.30**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030911	**AOCU-GW59**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:40	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030911	**AOCU-GW59**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:40	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 18:40	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030911	**AOCU-GW59**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:19	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	**Benzyl alcohol**	**0.555J**	**10.0**	**0.355**	**ug/L**
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030911	**AOCU-GW59**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:19	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.6	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	44.1	ug/L	88	16 - 128
1718-51-0	Terphenyl-d14	50	40.9	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	51.4	ug/L	51	10 - 120
367-12-4	2-Fluorophenol	100	60.8	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	100	93.7	ug/L	94	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 19:54	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	40.3	ug/L	81	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/09/2011 00:12	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.8	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030911	**AOCU-GW59**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 19:54	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.9	ug/L	76	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**84000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/03/2011 12:43	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.676**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030912	**TRIP BLANK**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 19:03	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030912	**TRIP BLANK**	Water	03/02/2011 09:15	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 19:03	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.5	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.3	ug/L	107	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030913	**AOCU-GW64**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 19:25	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030913	**AOCU-GW64**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 19:25	CLH	451890

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.8	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.7	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 19:25	CLH	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030913	**AOCU-GW64**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:36	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030913	**AOCU-GW64**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:36	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.7	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.3	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	47.7	ug/L	95	43 - 138
4165-62-2	Phenol-d5	100	48.8	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	57.6	ug/L	58	10 - 120
118-79-6	2,4,6-Tribromophenol	100	95.6	ug/L	96	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 20:11	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	37.9	ug/L	76	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/09/2011 00:36	BMR	452040

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.1	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030913	**AOCU-GW64**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 20:11	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.6	ug/L	71	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**113000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/03/2011 12:44	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**42.0**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030914	**AOCU-GW66**	Water	03/02/2011 10:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:06	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030914	**AOCU-GW66**	Water	03/02/2011 10:30	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:06	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	47.4	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	49.5	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.1	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:06	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030914	**AOCU-GW66**	Water	03/02/2011 10:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:53	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030914	**AOCU-GW66**	Water	03/02/2011 10:30	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 17:53	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.3	ug/L	83	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.5	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	48.8	ug/L	98	43 - 138
4165-62-2	Phenol-d5	100	44.4	ug/L	44	10 - 120
367-12-4	2-Fluorophenol	100	54.1	ug/L	54	10 - 120
118-79-6	2,4,6-Tribromophenol	100	87.7	ug/L	88	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 20:29	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.5	ug/L	77	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/09/2011 17:10	BMR	452126

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.1	ug/L	84	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030914	**AOCU-GW66**	Water	03/02/2011 10:30	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 20:29	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36.2	ug/L	72	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**114000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	03/03/2011 12:53	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**83.5**	**2.00**	**0.520**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030915	**TRIP BLANK**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:29	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030915	**TRIP BLANK**	Water	03/02/2011 09:30	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:29	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.3	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	47.4	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	49.5	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030916	**AOCU-GW56**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:52	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030916	**AOCU-GW56**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:52	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.8	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.5	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 00:52	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030916	**AOCU-GW56**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 18:09	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030916	**AOCU-GW56**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 10:30	451739	3510C	1	03/07/2011 18:09	JEW	451931

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.5	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	42.3	ug/L	85	16 - 128
1718-51-0	Terphenyl-d14	50	52.6	ug/L	105	43 - 138
4165-62-2	Phenol-d5	100	54.8	ug/L	55	10 - 120
367-12-4	2-Fluorophenol	100	65.5	ug/L	66	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.6	ug/L	91	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451742	3510C	1	03/04/2011 20:47	SMH	451911

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.9	ug/L	78	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/09/2011 17:34	BMR	452126

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.6	ug/L	82	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030916	**AOCU-GW56**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 13:32	451743	3510C	1	03/04/2011 20:47	SMH	451912

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	36.5	ug/L	73	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/03/2011 15:30	DJH	451765

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**191000**	**1000**	**1000**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	03/03/2011 12:54	AEL	451724

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**331**	**5.00**	**1.30**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030917	**TRIP BLANK**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 01:16	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030917	**TRIP BLANK**	Water	03/02/2011 10:40	03/03/2011 08:50

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 01:16	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	46.8	ug/L	94	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030918	**AOCU-GW68-M**	Water	03/01/2011 15:31	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:34	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 19:11	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.031B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.031B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1670**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0070B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2290**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.19**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.019B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**94.2**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 09:35	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**11200**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030919	**AOCU-GW69-M**	Water	03/01/2011 12:51	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:36	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 19:17	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.049B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.020B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1940**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0055B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2530**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.27**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.023B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**95.1**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 09:43	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**12000**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030920	**AOCU-GW69-A-M**	Water	03/01/2011 12:51	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:37	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 19:24	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.021B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1900**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0031B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2590**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.23**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.024B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**94.2**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 10:09	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**12100**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030921	**AOCU-GW71-M**	Water	03/01/2011 14:21	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:39	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 19:30	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.021B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.030B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1050**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0093B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.014B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2040**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.016B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.018B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**60.0**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 10:16	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**10200**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030922	**AOCU-GW72-M**	Water	03/01/2011 14:01	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:44	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 20:15	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.050B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.071**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**806**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0067B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2760**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.22**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.021B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**103**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 10:24	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16200**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030923	**AOCU-GW73-M**	Water	03/01/2011 13:01	03/03/2011 08:50

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:00	451729	SW-846 7470A Dissolved	1	03/09/2011 14:48	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	5	03/08/2011 20:22	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.029B**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**767**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0059B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.0065B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.010B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2140**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.78**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.020B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**64.2**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/03/2011 12:01	451727	SW-846 3005 Dissolved	50	03/09/2011 10:32	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**11200**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030924	**AOCU-GW56-M**	Water	03/02/2011 10:41	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:04	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 20:14	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**37800**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	20	03/11/2011 09:46	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.13B**	**1.20**	**0.081**	**mg/L**
7440-38-2	**Arsenic**	**0.058B**	**0.20**	**0.051**	**mg/L**
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**989**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.059B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.22**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**10100**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**0.34**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.10B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**244**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030925	**AOCU-GW57-M**	Water	03/02/2011 10:01	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:05	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 20:21	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**42900**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	20	03/11/2011 09:53	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.12B**	**1.20**	**0.081**	**mg/L**
7440-38-2	Arsenic	0.051U	0.20	0.051	mg/L
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**1030**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.060B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.20**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**10500**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**0.66**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.10B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**316**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030926	**AOCU-GW59-M**	Water	03/02/2011 09:16	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:07	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	10	03/10/2011 18:33	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.096B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**922**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.025B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.077B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6470**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.34**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.058B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**179**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 20:29	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**30800**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030927	**AOCU-GW64-M**	Water	03/02/2011 09:31	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:08	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	10	03/10/2011 18:40	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.10B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**2380**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.026B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.064B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6290**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.055B**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.053B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**165**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 20:49	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**24800**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103030928	**AOCU-GW66-M**	Water	03/02/2011 10:31	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:10	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	10	03/10/2011 18:47	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.094B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**3400**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.028B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.072B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**5790**	**1.00**	**0.14**	**mg/L**
7439-96-5	Manganese	0.012U	0.15	0.012	mg/L
7440-02-0	**Nickel**	**0.060B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**144**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/10/2011 19:29	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 20:57	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**21000**	**100**	**5.14**	**mg/L**

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797	**Client ID**	MB451797	LCS451797	LCSD451797
Prep Batch N/A	**GCAL ID**	926178	926179	926180
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	03/06/2011 01:12	03/05/2011 23:19	03/05/2011 23:41
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	44.6	89	59 - 134	40.9	82	9	30
107-02-8	Acrolein	2.49U	2.49	250	332	133	33 - 157	343	137	3	30
107-13-1	Acrylonitrile	1.62U	1.62	250	465	**186***	62 - 124	452	**181***	3	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	49.8	100	78 - 112	48.2	96	3	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	48.7	97	76 - 116	47.7	95	2	30
75-25-2	Bromoform	0.278U	0.278	50.0	56.3	113	68 - 128	51.9	104	8	30
74-83-9	Bromomethane	0.276U	0.276	50.0	54.7	109	55 - 151	51.6	103	6	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	50.4	101	67 - 147	46.2	92	9	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	51.2	102	74 - 139	48.4	97	6	30
75-00-3	Chloroethane	0.279U	0.279	50.0	52.3	105	54 - 166	47.8	96	9	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	99.5	100	83 - 121	94.5	95	5	30
67-66-3	Chloroform	0.062U	0.062	50.0	50.9	102	85 - 123	47.0	94	8	30
74-87-3	Chloromethane	0.076U	0.076	50.0	49.4	99	55 - 173	50.7	101	3	30
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	50.6	101	74 - 116	47.9	96	5	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	53.6	107	81 - 116	49.6	99	8	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	49.9	100	34 - 158	46.0	92	8	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.3	101	82 - 127	47.8	96	5	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	51.3	103	76 - 122	47.6	95	7	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	52.4	105	81 - 114	53.2	106	2	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	51.7	103	82 - 126	45.4	91	13	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	48.5	97	69 - 125	45.2	90	7	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	52.0	104	81 - 120	47.6	95	9	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	48.8	98	83 - 119	47.6	95	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.1	100	87 - 123	48.1	96	4	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.2	100	87 - 118	48.9	98	3	30
97-63-2	Ethyl methacrylate	0.340U	0.340								
591-78-6	2-Hexanone	0.302U	0.302	50.0	44.3	89	58 - 125	45.3	91	2	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.8	106	87 - 131	47.2	94	11	30
78-93-3	2-Butanone	0.235U	0.235	50.0	44.9	90	61 - 127	47.0	94	5	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	46.0	92	72 - 125	42.4	85	8	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	48.9	98	62 - 125	45.7	91	7	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.5	103	86 - 125	46.8	94	10	30
100-42-5	Styrene	0.058U	0.058	50.0	52.4	105	78 - 118	50.1	100	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	451797	**Client ID**	MB451797			LCS451797			LCSD451797		
Prep Batch	N/A	**GCAL ID**	926178			926179			926180		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 01:12			03/05/2011 23:19			03/05/2011 23:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
127-18-4	Tetrachloroethene		0.210U	0.210	50.0	48.6	97	80 - 131	43.7	87	11	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	48.9	98	81 - 119	46.5	93	5	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	53.0	106	71 - 120	50.4	101	5	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	48.0	96	68 - 123	47.6	95	0.8	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	48.8	98	79 - 133	45.5	91	7	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	49.4	99	80 - 114	45.8	92	8	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	53.0	106	66 - 156	48.0	96	10	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	51.7	103	77 - 115	49.7	99	4	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	51.0	102	82 - 120	47.5	95	7	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	50.5	101	83 - 123	47.4	95	6	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	52.2	104	57 - 153	46.9	94	11	30
95-47-6	o-Xylene		0.077U	0.077	50.0	51.6	103	83 - 121	47.2	94	9	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	48.8	98	61 - 118	49.0	98	0.4	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	51.6	103	80 - 115	49.8	100	4	30
80-62-6	Methyl methacrylate		0.606U	0.606								
107-12-0	Propionitrile		3.06U	3.06								
108-05-4	Vinyl acetate		0.197U	0.197	50.0	55.0	110	38 - 159	55.0	110	0	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	52.7	105	75 - 116	50.7	101	4	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	52.8	106	83 - 125	47.4	95	11	30
110-54-3	n-Hexane		0.126U	0.126	50.0	49.4	99	71 - 134	46.8	94	5	30
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429	50.0	50.9	102	51 - 137	50.0	100	2	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	52.9	106	77 - 138	47.3	95	11	30
76-13-1	Trichlorotrifluoroethane		0.141U	0.141	50.0	53.0	106	74 - 139	48.0	96	10	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	48.8	98	87 - 127	47.5	95	3	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20	50.0	48.0	96	63 - 125	46.0	92	4	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	51.6	103	81 - 113	49.0	98	5	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	50.6	101	83 - 115	45.9	92	10	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	51.4	103	81 - 121	47.0	94	9	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	50.0	100	84 - 120	46.1	92	8	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	50.3	101	83 - 126	45.8	92	9	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	51.5	103	86 - 127	46.8	94	10	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	50.1	100	86 - 115	46.1	92	8	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	49.4	99	87 - 113	47.1	94	5	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	MB451797			LCS451797			LCSD451797		
Prep Batch N/A		**GCAL ID**	926178			926179			926180		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 01:12			03/05/2011 23:19			03/05/2011 23:41		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	52.4	105	84 - 124	49.1	98	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	51.1	102	85 - 115	47.7	95	7	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	54.0	108	71 - 133	45.8	92	16	30
91-20-3	Naphthalene		0.175U	0.175	50.0	47.2	94	59 - 125	50.1	100	6	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	49.9	100	64 - 126	47.0	94	6	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.2	108	87 - 128	52.7	105	3	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	50.4	101	75 - 133	46.1	92	9	20
71-43-2	Benzene		0.049U	0.049	50.0	48.8	98	83 - 124	47.1	94	4	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	48.8	98	85 - 124	45.4	91	7	20
108-88-3	Toluene		0.078U	0.078	50.0	49.1	98	86 - 116	45.7	91	7	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.1	94	87 - 115	46.0	92	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.9	100	50	50.9	102	84 - 120	50.2	100		
1868-53-7	Dibromofluoromethane		50	100	50	50.6	101	87 - 116	50.4	101		
2037-26-5	Toluene d8		50	100	50	48.7	97	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4		51.4	103	50	52.3	105	76 - 127	49.1	98		

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.00	0.322	50.0	43.6	87	59 - 134	41.5	83	5	14
107-02-8	Acrolein		0.00	2.49	250	275	110	33 - 157	271	108	1	21
107-13-1	Acrylonitrile		0.00	1.62	250	266	106	62 - 124	278	111	4	13
74-97-5	Bromochloromethane		0.00	0.238	50.0	48.0	96	78 - 112	46.4	93	3	10

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-27-4	Bromodichloromethane		0.00	0.071	50.0	49.7	99	76 - 116	47.9	96	4	10
75-25-2	Bromoform		0.00	0.278	50.0	52.4	105	68 - 128	57.2	114	9	11
74-83-9	Bromomethane		0.00	0.276	50.0	51.4	103	55 - 151	50.1	100	3	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	48.5	97	67 - 147	47.3	95	3	12
56-23-5	Carbon tetrachloride		0.00	0.056	50.0	50.5	101	74 - 139	49.2	98	3	13
75-00-3	Chloroethane		0.00	0.279	50.0	25.4	**51***	54 - 166	27.0	54	6	20
136777-61-2	m,p-Xylene		0.00	0.099	100	94.1	94	83 - 121	92.9	93	1	10
67-66-3	Chloroform		0.00	0.062	50.0	50.0	100	85 - 123	49.9	100	0.2	10
74-87-3	Chloromethane		0.00	0.076	50.0	52.7	105	55 - 173	52.4	105	0.6	22
124-48-1	Dibromochloromethane		0.00	0.133	50.0	50.3	101	74 - 116	50.6	101	0.6	11
74-95-3	Dibromomethane		0.00	0.197	50.0	51.1	102	81 - 116	51.0	102	0.2	10
75-71-8	Dichlorodifluoromethane		0.00	0.088	50.0	49.0	98	34 - 158	48.4	97	1	22
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	51.5	103	82 - 127	50.3	101	2	10
107-06-2	1,2-Dichloroethane		0.00	0.121	50.0	51.0	102	76 - 122	49.8	100	2	11
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	50.9	102	81 - 114	50.3	101	1	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	50.5	101	82 - 126	48.9	98	3	10
75-09-2	Methylene chloride		0.00	0.102	50.0	49.5	99	69 - 125	47.8	96	3	11
78-87-5	1,2-Dichloropropane		0.00	0.114	50.0	53.1	106	81 - 120	51.1	102	4	11
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	51.8	104	83 - 119	48.4	97	7	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	50.3	101	87 - 123	49.3	99	2	10
100-41-4	Ethylbenzene		0.00	0.180	50.0	47.7	95	87 - 118	46.5	93	3	10
591-78-6	2-Hexanone		0.00	0.302	50.0	55.7	111	58 - 125	56.1	112	0.7	14
98-82-8	Isopropylbenzene (Cumene)		0.00	0.058	50.0	47.8	96	87 - 131	48.9	98	2	10
78-93-3	2-Butanone		0.00	0.235	50.0	53.8	108	61 - 127	55.3	111	3	13
74-88-4	Methyl iodide		0.00	0.097	50.0	43.2	86	72 - 125	41.9	84	3	11
108-10-1	4-Methyl-2-pentanone		0.00	0.142	50.0	59.8	120	62 - 125	59.6	119	0.3	13
103-65-1	n-Propylbenzene		0.00	0.069	50.0	47.8	96	86 - 125	46.0	92	4	10
100-42-5	Styrene		0.00	0.058	50.0	48.7	97	78 - 118	50.4	101	3	11
127-18-4	Tetrachloroethene		0.00	0.210	50.0	46.2	92	80 - 131	44.8	90	3	12
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	47.0	94	81 - 119	45.7	91	3	10
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	53.7	107	71 - 120	53.4	107	0.6	11
120-82-1	1,2,4-Trichlorobenzene		0.00	0.138	50.0	45.7	91	68 - 123	47.4	95	4	11
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	48.8	98	79 - 133	45.8	92	6	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797	**Client ID**	AOCU-GW98	AOCU-GW98-MS	AOCU-GW98-MSD
Prep Batch N/A	**GCAL ID**	21103021607	21103021609	21103021610
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/06/2011 01:34	03/06/2011 01:57	03/06/2011 02:20
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
79-00-5	1,1,2-Trichloroethane	0.00	0.179	50.0	50.5	101	80 - 114	48.2	96	5	11
75-69-4	Trichlorofluoromethane	0.00	0.094	50.0	50.7	101	66 - 156	50.3	101	0.8	15
96-18-4	1,2,3-Trichloropropane	0.00	0.063	50.0	74.4	**149***	77 - 115	74.8	**150***	0.5	12
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	47.4	95	82 - 120	47.4	95	0	10
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	46.3	93	83 - 123	45.8	92	1	10
75-01-4	Vinyl chloride	0.00	0.104	50.0	52.4	105	57 - 153	52.5	105	0.2	22
95-47-6	o-Xylene	0.00	0.077	50.0	48.6	97	83 - 121	49.2	98	1	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	56.7	113	61 - 118	56.7	113	0	15
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	50.4	101	80 - 115	50.2	100	0.4	10
108-05-4	Vinyl acetate	0.00	0.197	50.0	55.5	111	38 - 159	53.6	107	3	11
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.084	50.0	52.0	104	75 - 116	51.6	103	0.8	10
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	47.4	95	83 - 125	46.9	94	1	9
110-54-3	n-Hexane	0.00	0.126	50.0	48.1	96	71 - 134	44.3	89	8	11
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.429	50.0	118	**236***	51 - 137	113	**226***	4	24
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	46.4	93	77 - 138	44.0	88	5	12
76-13-1	Trichlorotrifluoroethane	0.00	0.141	50.0	52.7	105	74 - 139	51.3	103	3	13
563-58-6	1,1-Dichloropropene	0.00	0.071	50.0	49.7	99	87 - 127	47.9	96	4	10
110-75-8	2-Chloroethylvinyl ether	0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	52.3	105	81 - 113	51.0	102	3	11
108-86-1	Bromobenzene	0.00	0.095	50.0	48.3	97	83 - 115	47.7	95	1	10
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	45.8	92	81 - 121	44.9	90	2	10
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	47.5	95	84 - 120	46.3	93	3	10
98-06-6	tert-Butylbenzene	0.00	0.058	50.0	47.5	95	83 - 126	45.9	92	3	10
135-98-8	sec-Butylbenzene	0.00	0.088	50.0	47.7	95	86 - 127	48.1	96	0.8	10
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	45.9	92	86 - 115	46.3	93	0.9	9
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	45.9	92	87 - 113	46.6	93	2	10
104-51-8	n-Butylbenzene	0.00	0.068	50.0	47.9	96	84 - 124	49.7	99	4	10
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	47.1	94	85 - 115	48.4	97	3	9
87-68-3	Hexachlorobutadiene	0.00	0.347	50.0	49.6	99	71 - 133	47.7	95	4	12
91-20-3	Naphthalene	0.00	0.175	50.0	49.2	98	59 - 125	53.0	106	7	15
87-61-6	1,2,3-Trichlorobenzene	0.00	0.107	50.0	48.0	96	64 - 126	48.2	96	0.4	16
544-10-5	1-Chlorohexane	0.00	0.139	50.0	45.9	92	87 - 128	45.2	90	2	10
75-35-4	1,1-Dichloroethene	0.00	0.183	50.0	52.2	104	75 - 133	49.2	98	6	13

GC/MS Volatiles Quality Control Summary

Analytical Batch 451797		**Client ID**	AOCU-GW98			AOCU-GW98-MS			AOCU-GW98-MSD		
Prep Batch N/A		**GCAL ID**	21103021607			21103021609			21103021610		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 01:34			03/06/2011 01:57			03/06/2011 02:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
71-43-2	Benzene		0.00	0.049	50.0	50.7	101	83 - 124	48.2	96	5	11
79-01-6	Trichloroethene		0.00	0.094	50.0	47.3	95	85 - 124	46.7	93	1	10
108-88-3	Toluene		0.00	0.078	50.0	48.7	97	86 - 116	47.0	94	4	10
108-90-7	Chlorobenzene		0.00	0.055	50.0	46.6	93	87 - 115	44.9	90	4	9
Surrogate												
460-00-4	4-Bromofluorobenzene				50	47.9	96	84 - 120	49.6	99		
1868-53-7	Dibromofluoromethane				50	50.1	100	87 - 116	48.5	97		
2037-26-5	Toluene d8				50	48.2	96	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4				50	53.6	107	76 - 127	51.6	103		

Analytical Batch 451890		**Client ID**	MB451890			LCS451890			LCSD451890		
Prep Batch N/A		**GCAL ID**	926616			926617			926618		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 11:49			03/06/2011 10:18			03/06/2011 10:41		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone		0.322U	0.322	50.0	38.1	76	59 - 134	43.5	87	13	30
107-02-8	Acrolein		2.49U	2.49	250	251	100	33 - 157	252	101	0.4	30
107-13-1	Acrylonitrile		1.62U	1.62	250	252	101	62 - 124	252	101	0	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	42.9	86	78 - 112	42.1	84	2	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	44.4	89	76 - 116	46.2	92	4	30
75-25-2	Bromoform		0.278U	0.278	50.0	48.5	97	68 - 128	51.5	103	6	30
74-83-9	Bromomethane		0.276U	0.276	50.0	44.9	90	55 - 151	46.4	93	3	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	47.8	96	67 - 147	45.2	90	6	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	50.3	101	74 - 139	48.0	96	5	30
75-00-3	Chloroethane		0.279U	0.279	50.0	46.1	92	54 - 166	51.8	104	12	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	93.0	93	83 - 121	96.1	96	3	30
67-66-3	Chloroform		0.062U	0.062	50.0	45.9	92	85 - 123	46.3	93	0.9	30
74-87-3	Chloromethane		0.076U	0.076	50.0	45.6	91	55 - 173	49.1	98	7	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	46.2	92	74 - 116	48.4	97	5	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	46.6	93	81 - 116	47.9	96	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451890		**Client ID**	MB451890			LCS451890			LCSD451890		
Prep Batch N/A		**GCAL ID**	926616			926617			926618		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 11:49			03/06/2011 10:18			03/06/2011 10:41		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-71-8	Dichlorodifluoromethane	0.088U	0.088		50.0	50.5	101	34 - 158	47.4	95	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064		50.0	47.5	95	82 - 127	48.4	97	2	30
107-06-2	1,2-Dichloroethane	0.121U	0.121		50.0	46.6	93	76 - 122	46.4	93	0.4	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104		50.0	47.3	95	81 - 114	47.3	95	0	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096		50.0	48.7	97	82 - 126	45.7	91	6	30
75-09-2	Methylene chloride	0.102U	0.102		50.0	44.8	90	69 - 125	46.5	93	4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114		50.0	44.2	88	81 - 120	48.4	97	9	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105		50.0	45.3	91	83 - 119	46.1	92	2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068		50.0	45.3	91	87 - 123	47.7	95	5	30
100-41-4	Ethylbenzene	0.180U	0.180		50.0	46.1	92	87 - 118	46.6	93	1	30
97-63-2	Ethyl methacrylate	0.340U	0.340									
591-78-6	2-Hexanone	0.302U	0.302		50.0	42.4	85	58 - 125	45.2	90	6	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058		50.0	48.3	97	87 - 131	46.1	92	5	30
78-93-3	2-Butanone	0.235U	0.235		50.0	44.4	89	61 - 127	47.9	96	8	30
74-88-4	Methyl iodide	0.097U	0.097		50.0	43.1	86	72 - 125	43.3	87	0.5	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142		50.0	46.4	93	62 - 125	48.6	97	5	30
103-65-1	n-Propylbenzene	0.069U	0.069		50.0	49.7	99	86 - 125	45.5	91	9	30
100-42-5	Styrene	0.058U	0.058		50.0	45.7	91	78 - 118	47.0	94	3	30
127-18-4	Tetrachloroethene	0.210U	0.210		50.0	46.6	93	80 - 131	46.2	92	0.9	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	43.4	87	81 - 119	45.7	91	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	47.3	95	71 - 120	47.6	95	0.6	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	47.8	96	68 - 123	45.1	90	6	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	46.7	93	79 - 133	45.7	91	2	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	44.9	90	80 - 114	46.9	94	4	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	52.6	105	66 - 156	49.9	100	5	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	48.6	97	77 - 115	48.5	97	0.2	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	47.6	95	82 - 120	46.3	93	3	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	47.8	96	83 - 123	44.8	90	6	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	49.8	100	57 - 153	49.6	99	0.4	30
95-47-6	o-Xylene	0.077U	0.077		50.0	45.2	90	83 - 121	46.4	93	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	49.4	99	61 - 118	50.2	100	2	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	44.0	88	80 - 115	47.3	95	7	30
80-62-6	Methyl methacrylate	0.606U	0.606									

GC/MS Volatiles Quality Control Summary

Analytical Batch 451890		**Client ID**	MB451890			LCS451890			LCSD451890		
Prep Batch N/A		**GCAL ID**	926616			926617			926618		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 11:49			03/06/2011 10:18			03/06/2011 10:41		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
107-12-0	Propionitrile	3.06U		3.06								
108-05-4	Vinyl acetate	0.197U		0.197	50.0	43.7	87	38 - 159	45.6	91	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U		0.084	50.0	45.9	92	75 - 116	50.0	100	9	30
99-87-6	4-Isopropyltoluene	0.175U		0.175	50.0	49.4	99	83 - 125	44.2	88	11	30
110-54-3	n-Hexane	0.126U		0.126	50.0	58.4	117	71 - 134	46.9	94	22	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U		0.429	50.0	49.9	100	51 - 137	49.4	99	1	30
594-20-7	2,2-Dichloropropane	0.112U		0.112	50.0	46.7	93	77 - 138	44.3	89	5	30
76-13-1	Trichlorotrifluoroethane	0.141U		0.141	50.0	52.8	106	74 - 139	48.6	97	8	30
563-58-6	1,1-Dichloropropene	0.071U		0.071	50.0	47.5	95	87 - 127	46.6	93	2	30
110-75-8	2-Chloroethylvinyl ether	1.20U		1.20	50.0	47.2	94	63 - 125	47.8	96	1	30
142-28-9	1,3-Dichloropropane	0.113U		0.113	50.0	45.7	91	81 - 113	49.9	100	9	30
108-86-1	Bromobenzene	0.095U		0.095	50.0	45.4	91	83 - 115	44.3	89	2	30
95-49-8	2-Chlorotoluene	0.090U		0.090	50.0	47.1	94	81 - 121	43.3	87	8	30
106-43-4	4-Chlorotoluene	0.046U		0.046	50.0	46.6	93	84 - 120	44.9	90	4	30
98-06-6	tert-Butylbenzene	0.058U		0.058	50.0	49.8	100	83 - 126	46.1	92	8	30
135-98-8	sec-Butylbenzene	0.088U		0.088	50.0	50.5	101	86 - 127	45.2	90	11	30
541-73-1	1,3-Dichlorobenzene	0.080U		0.080	50.0	46.2	92	86 - 115	44.5	89	4	30
106-46-7	1,4-Dichlorobenzene	0.058U		0.058	50.0	45.9	92	87 - 113	44.8	90	2	30
104-51-8	n-Butylbenzene	0.068U		0.068	50.0	50.6	101	84 - 124	45.5	91	11	30
95-50-1	1,2-Dichlorobenzene	0.086U		0.086	50.0	47.8	96	85 - 115	47.1	94	1	30
87-68-3	Hexachlorobutadiene	0.347U		0.347	50.0	56.1	112	71 - 133	45.1	90	22	30
91-20-3	Naphthalene	0.175U		0.175	50.0	47.0	94	59 - 125	48.0	96	2	35
87-61-6	1,2,3-Trichlorobenzene	0.107U		0.107	50.0	49.5	99	64 - 126	47.2	94	5	30
75-05-8	Acetonitrile	5.04U		5.04								
107-05-1	Allyl chloride	0.343U		0.343								
544-10-5	1-Chlorohexane	0.139U		0.139	50.0	50.0	100	87 - 128	47.5	95	5	30
76-01-7	Pentachloroethane	1.87U		1.87								
126-98-7	Methacrylonitrile	0.743U		0.743								
75-35-4	1,1-Dichloroethene	0.183U		0.183	50.0	47.8	96	75 - 133	46.9	94	2	20
71-43-2	Benzene	0.049U		0.049	50.0	44.6	89	83 - 124	45.6	91	2	20
79-01-6	Trichloroethene	0.094U		0.094	50.0	46.4	93	85 - 124	45.1	90	3	20
108-88-3	Toluene	0.078U		0.078	50.0	46.0	92	86 - 116	46.6	93	1	20
108-90-7	Chlorobenzene	0.055U		0.055	50.0	43.5	87	87 - 115	45.3	91	4	20

GC/MS Volatiles Quality Control Summary

Analytical Batch 451890		**Client ID**	MB451890			LCS451890			LCSD451890		
Prep Batch N/A		**GCAL ID**	926616			926617			926618		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 11:49			03/06/2011 10:18			03/06/2011 10:41		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
Surrogate												
460-00-4	4-Bromofluorobenzene		49.8	100	50	48.1	96	84 - 120	50.6	101		
1868-53-7	Dibromofluoromethane		52.6	105	50	49.2	98	87 - 116	50.8	102		
2037-26-5	Toluene d8		49.1	98	50	48.8	98	86 - 112	50	100		
17060-07-0	1,2-Dichloroethane-d4		49.6	99	50	51	102	76 - 127	49.7	99		

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	33.6	67	59 - 134	43.7	87	26	30
107-02-8	Acrolein		2.49U	2.49	250	213	85	33 - 157	253	101	17	30
107-13-1	Acrylonitrile		1.62U	1.62	250	212	85	62 - 124	252	101	17	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	45.7	91	78 - 112	47.2	94	3	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	53.1	106	76 - 116	49.9	100	6	30
75-25-2	Bromoform		0.278U	0.278	50.0	46.6	93	68 - 128	51.3	103	10	30
74-83-9	Bromomethane		0.276U	0.276	50.0	51.3	103	55 - 151	59.1	118	14	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	52.8	106	67 - 147	52.6	105	0.4	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	54.7	109	74 - 139	50.8	102	7	30
75-00-3	Chloroethane		0.279U	0.279	50.0	52.7	105	54 - 166	53.9	108	2	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	101	101	83 - 121	99.4	99	2	30
67-66-3	Chloroform		0.062U	0.062	50.0	49.5	99	85 - 123	48.2	96	3	30
74-87-3	Chloromethane		0.076U	0.076	50.0	51.7	103	55 - 173	53.6	107	4	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	49.3	99	74 - 116	49.5	99	0.4	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	52.1	104	81 - 116	51.8	104	0.6	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	53.9	108	34 - 158	52.5	105	3	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	53.6	107	82 - 127	54.1	108	0.9	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	52.9	106	76 - 122	52.3	105	1	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	52.3	105	81 - 114	51.1	102	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096		50.0	53.7	107	82 - 126	52.6	105	2	30
75-09-2	Methylene chloride	0.102U	0.102		50.0	50.3	101	69 - 125	50.1	100	0.4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114		50.0	52.1	104	81 - 120	52.3	105	0.4	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105		50.0	51.3	103	83 - 119	51.4	103	0.2	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068		50.0	49.3	99	87 - 123	49.8	100	1	30
100-41-4	Ethylbenzene	0.180U	0.180		50.0	51.3	103	87 - 118	49.8	100	3	30
97-63-2	Ethyl methacrylate	0.340U	0.340									
591-78-6	2-Hexanone	0.302U	0.302		50.0	33.3	67	58 - 125	43.3	87	26	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058		50.0	51.2	102	87 - 131	50.1	100	2	30
78-93-3	2-Butanone	0.235U	0.235		50.0	36.9	74	61 - 127	47.4	95	25	30
74-88-4	Methyl iodide	0.097U	0.097		50.0	48.7	97	72 - 125	52.0	104	7	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142		50.0	39.9	80	62 - 125	49.0	98	20	30
103-65-1	n-Propylbenzene	0.069U	0.069		50.0	51.9	104	86 - 125	51.1	102	2	30
100-42-5	Styrene	0.058U	0.058		50.0	48.4	97	78 - 118	49.8	100	3	30
127-18-4	Tetrachloroethene	0.210U	0.210		50.0	49.8	100	80 - 131	47.6	95	5	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	48.1	96	81 - 119	45.8	92	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	44.3	89	71 - 120	50.7	101	13	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	47.6	95	68 - 123	49.2	98	3	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	53.1	106	79 - 133	50.4	101	5	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	46.1	92	80 - 114	48.5	97	5	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	56.7	113	66 - 156	54.9	110	3	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	42.1	84	77 - 115	50.9	102	19	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	51.1	102	82 - 120	50.1	100	2	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	51.1	102	83 - 123	49.7	99	3	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	54.3	109	57 - 153	57.0	114	5	30
95-47-6	o-Xylene	0.077U	0.077		50.0	48.0	96	83 - 121	48.5	97	1	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	37.7	75	61 - 118	48.0	96	24	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	45.0	90	80 - 115	47.0	94	4	30
80-62-6	Methyl methacrylate	0.606U	0.606									
107-12-0	Propionitrile	3.06U	3.06									
108-05-4	Vinyl acetate	0.197U	0.197		50.0	43.2	86	38 - 159	48.3	97	11	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	50.1	100	75 - 116	52.4	105	4	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	52.7	105	83 - 125	51.0	102	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
110-54-3	n-Hexane		0.126U	0.126	50.0	59.7	119	71 - 134	56.7	113	5	30
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429	50.0	44.8	90	51 - 137	53.1	106	17	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	52.4	105	77 - 138	48.8	98	7	30
76-13-1	Trichlorotrifluoroethane		0.141U	0.141	50.0	56.5	113	74 - 139	55.8	112	1	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	53.7	107	87 - 127	51.4	103	4	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20	50.0	51.6	103	63 - 125	49.4	99	4	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	49.6	99	81 - 113	50.3	101	1	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	47.7	95	83 - 115	48.6	97	2	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	50.2	100	81 - 121	51.4	103	2	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	49.0	98	84 - 120	49.9	100	2	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	51.9	104	83 - 126	51.0	102	2	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.0	106	86 - 127	50.9	102	4	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	48.7	97	86 - 115	48.4	97	0.6	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	47.4	95	87 - 113	49.0	98	3	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	55.1	110	84 - 124	51.7	103	6	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	48.1	96	85 - 115	50.0	100	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	51.8	104	71 - 133	50.6	101	2	30
91-20-3	Naphthalene		0.175U	0.175	50.0	42.4	85	59 - 125	47.6	95	12	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	48.2	96	64 - 126	50.7	101	5	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.1	108	87 - 128	52.1	104	4	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	52.6	105	75 - 133	52.9	106	0.6	20
71-43-2	Benzene		0.049U	0.049	50.0	51.0	102	83 - 124	50.5	101	1	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	50.3	101	85 - 124	49.5	99	2	20
108-88-3	Toluene		0.078U	0.078	50.0	49.0	98	86 - 116	48.0	96	2	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.8	96	87 - 115	47.0	94	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		47.6	95	50	48.6	97	84 - 120	48	96		
1868-53-7	Dibromofluoromethane		48.1	96	50	51.5	103	87 - 116	51.4	103		
2037-26-5	Toluene d8		48.5	97	50	46.6	93	86 - 112	47.9	96		

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
17060-07-0	1,2-Dichloroethane-d4		53.7	107	50	52.2	104	76 - 127	52.8	106		

Analytical Batch 451901		**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch N/A		**GCAL ID**	21103041002			21103041004			21103041005		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 22:34			03/06/2011 22:58			03/06/2011 23:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.00	0.322	50.0	62.4	125	59 - 134	62.2	124	0.3	14
107-02-8	Acrolein		0.00	2.49	250	344	138	33 - 157	321	128	7	21
107-13-1	Acrylonitrile		0.00	1.62	250	349	**140***	62 - 124	345	**138***	1	13
74-97-5	Bromochloromethane		0.00	0.238	50.0	44.0	88	78 - 112	47.8	96	8	10
75-27-4	Bromodichloromethane		0.00	0.071	50.0	48.9	98	76 - 116	50.9	102	4	10
75-25-2	Bromoform		0.00	0.278	50.0	54.0	108	68 - 128	55.8	112	3	11
74-83-9	Bromomethane		0.00	0.276	50.0	47.6	95	55 - 151	51.2	102	7	21
75-15-0	Carbon disulfide		0.00	0.190	50.0	47.4	95	67 - 147	49.4	99	4	12
56-23-5	Carbon tetrachloride		0.00	0.056	50.0	48.1	96	74 - 139	49.7	99	3	13
75-00-3	Chloroethane		0.00	0.279	50.0	17.4	**35***	54 - 166	17.1	**34***	2	20
136777-61-2	m,p-Xylene		0.00	0.099	100	84.1	84	83 - 121	89.0	89	6	10
67-66-3	Chloroform		0.00	0.062	50.0	47.2	94	85 - 123	46.4	93	2	10
74-87-3	Chloromethane		0.00	0.076	50.0	48.8	98	55 - 173	56.2	112	14	22
124-48-1	Dibromochloromethane		0.00	0.133	50.0	50.1	100	74 - 116	52.7	105	5	11
74-95-3	Dibromomethane		0.00	0.197	50.0	51.4	103	81 - 116	53.6	107	4	10
75-71-8	Dichlorodifluoromethane		0.00	0.088	50.0	50.3	101	34 - 158	49.9	100	0.8	22
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	54.2	108	82 - 127	54.7	109	0.9	10
107-06-2	1,2-Dichloroethane		0.00	0.121	50.0	52.6	105	76 - 122	52.9	106	0.6	11
156-59-2	cis-1,2-Dichloroethene		0.00	0.104	50.0	51.0	102	81 - 114	51.4	103	0.8	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	51.2	102	82 - 126	51.2	102	0	10
75-09-2	Methylene chloride		0.00	0.102	50.0	48.9	98	69 - 125	49.4	99	1	11
78-87-5	1,2-Dichloropropane		0.00	0.114	50.0	53.8	108	81 - 120	54.3	109	0.9	11
10061-01-5	cis-1,3-Dichloropropene		0.00	0.105	50.0	49.2	98	83 - 119	51.1	102	4	10

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901	**Client ID**	AOCU-GW52	AOCU-GW52-MS	AOCU-GW52-MSD
Prep Batch N/A	**GCAL ID**	21103041002	21103041004	21103041005
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/06/2011 22:34	03/06/2011 22:58	03/06/2011 23:20
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
10061-02-6	trans-1,3-Dichloropropene	0.00	0.068	50.0	50.2	100	87 - 123	53.1	106	6	10
100-41-4	Ethylbenzene	0.00	0.180	50.0	43.2	**86***	87 - 118	45.7	91	6	10
591-78-6	2-Hexanone	0.00	0.302	50.0	92.8	**186***	58 - 125	96.9	**194***	4	14
98-82-8	Isopropylbenzene (Cumene)	0.00	0.058	50.0	42.0	**84***	87 - 131	44.1	88	5	10
78-93-3	2-Butanone	0.00	0.235	50.0	85.7	**171***	61 - 127	87.7	**175***	2	13
74-88-4	Methyl iodide	0.00	0.097	50.0	42.3	85	72 - 125	48.9	98	**14***	11
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	83.6	**167***	62 - 125	86.8	**174***	4	13
103-65-1	n-Propylbenzene	0.00	0.069	50.0	45.7	91	86 - 125	47.9	96	5	10
100-42-5	Styrene	0.00	0.058	50.0	44.3	89	78 - 118	45.7	91	3	11
127-18-4	Tetrachloroethene	0.00	0.210	50.0	42.3	85	80 - 131	43.7	87	3	12
630-20-6	1,1,1,2-Tetrachloroethane	0.00	0.150	50.0	44.3	89	81 - 119	45.5	91	3	10
79-34-5	1,1,2,2-Tetrachloroethane	0.00	0.112	50.0	64.2	**128***	71 - 120	65.8	**132***	2	11
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	45.9	92	68 - 123	49.9	100	8	11
71-55-6	1,1,1-Trichloroethane	0.00	0.078	50.0	48.1	96	79 - 133	47.6	95	1	11
79-00-5	1,1,2-Trichloroethane	0.00	0.179	50.0	49.8	100	80 - 114	53.1	106	6	11
75-69-4	Trichlorofluoromethane	0.00	0.094	50.0	49.7	99	66 - 156	51.4	103	3	15
96-18-4	1,2,3-Trichloropropane	0.00	0.063	50.0	97.6	**195***	77 - 115	97.5	**195***	0.1	12
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	46.2	92	82 - 120	47.8	96	3	10
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	46.1	92	83 - 123	46.7	93	1	10
75-01-4	Vinyl chloride	0.00	0.104	50.0	52.7	105	57 - 153	55.6	111	5	22
95-47-6	o-Xylene	0.00	0.077	50.0	42.7	85	83 - 121	45.2	90	6	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	81.9	**164***	61 - 118	86.6	**173***	6	15
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	52.0	104	80 - 115	53.1	106	2	10
108-05-4	Vinyl acetate	0.00	0.197	50.0	57.7	115	38 - 159	57.1	114	1	11
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.084	50.0	52.8	106	75 - 116	54.6	109	3	10
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	46.0	92	83 - 125	49.1	98	7	9
110-54-3	n-Hexane	0.00	0.126	50.0	44.4	89	71 - 134	43.8	88	1	11
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.429	50.0	165	**330***	51 - 137	158	**316***	4	24
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	47.4	95	77 - 138	46.7	93	1	12
76-13-1	Trichlorotrifluoroethane	0.00	0.141	50.0	48.3	97	74 - 139	48.6	97	0.6	13
563-58-6	1,1-Dichloropropene	0.00	0.071	50.0	46.1	92	87 - 127	48.1	96	4	10
110-75-8	2-Chloroethylvinyl ether	0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	52.0	104	81 - 113	54.9	110	5	11

GC/MS Volatiles Quality Control Summary

Analytical Batch	451901	**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch	N/A	**GCAL ID**	21103041002			21103041004			21103041005		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 22:34			03/06/2011 22:58			03/06/2011 23:20		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-86-1	Bromobenzene		0.00	0.095	50.0	46.9	94	83 - 115	49.2	98	5	10
95-49-8	2-Chlorotoluene		0.00	0.090	50.0	45.6	91	81 - 121	46.7	93	2	10
106-43-4	4-Chlorotoluene		0.00	0.046	50.0	46.7	93	84 - 120	47.3	95	1	10
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	47.3	95	83 - 126	47.5	95	0.4	10
135-98-8	sec-Butylbenzene		0.00	0.088	50.0	47.3	95	86 - 127	49.5	99	5	10
541-73-1	1,3-Dichlorobenzene		0.00	0.080	50.0	44.9	90	86 - 115	46.4	93	3	9
106-46-7	1,4-Dichlorobenzene		0.00	0.058	50.0	44.2	88	87 - 113	46.2	92	4	10
104-51-8	n-Butylbenzene		0.00	0.068	50.0	50.0	100	84 - 124	53.6	107	7	10
95-50-1	1,2-Dichlorobenzene		0.00	0.086	50.0	46.4	93	85 - 115	48.7	97	5	9
87-68-3	Hexachlorobutadiene		0.00	0.347	50.0	53.1	106	71 - 133	56.5	113	6	12
91-20-3	Naphthalene		0.00	0.175	50.0	48.4	97	59 - 125	58.5	117	**19***	15
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	45.8	92	64 - 126	52.0	104	13	16
544-10-5	1-Chlorohexane		0.00	0.139	50.0	37.7	**75***	87 - 128	40.1	**80***	6	10
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	49.7	99	75 - 133	50.3	101	1	13
71-43-2	Benzene		0.00	0.049	50.0	49.0	98	83 - 124	49.8	100	2	11
79-01-6	Trichloroethene		0.00	0.094	50.0	45.6	91	85 - 124	46.6	93	2	10
108-88-3	Toluene		0.00	0.078	50.0	45.9	92	86 - 116	46.5	93	1	10
108-90-7	Chlorobenzene		0.00	0.055	50.0	42.2	**84***	87 - 115	44.7	89	6	9
Surrogate												
460-00-4	4-Bromofluorobenzene				50	47.8	96	84 - 120	47.9	96		
1868-53-7	Dibromofluoromethane				50	51.5	103	87 - 116	51.2	102		
2037-26-5	Toluene d8				50	50.5	101	86 - 112	49.9	100		
17060-07-0	1,2-Dichloroethane-d4				50	55.4	111	76 - 127	52.6	105		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451739			LCS451739			LCSD451739		
Prep Batch	451739	**GCAL ID**	925922			925923			925924		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/04/2011 10:30			03/04/2011 10:30			03/04/2011 10:30		
		Analytical Date	03/07/2011 14:32			03/07/2011 14:50			03/07/2011 15:06		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
208-96-8	Acenaphthylene		0.303U	0.303								
120-12-7	Anthracene		0.316U	0.316								
56-55-3	Benzo(a)anthracene		0.316U	0.316								
92-87-5	Benzidine		3.92U	3.92								
205-99-2	Benzo(b)fluoranthene		0.217U	0.217								
207-08-9	Benzo(k)fluoranthene		0.236U	0.236								
191-24-2	Benzo(g,h,i)perylene		0.215U	0.215								
50-32-8	Benzo(a)pyrene		0.125U	0.125								
65-85-0	Benzoic acid		0.910U	0.910								
85-68-7	Butyl benzyl phthalate		0.165U	0.165								
111-91-1	Bis(2-Chloroethoxy)methane		0.290U	0.290								
111-44-4	Bis(2-Chloroethyl)ether		0.288U	0.288								
108-60-1	Bis(2-Chloroisopropyl)ether		0.257U	0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate		0.191U	0.191								
101-55-3	4-Bromophenyl phenyl ether		0.337U	0.337								
7005-72-3	4-Chlorophenyl phenyl ether		0.268U	0.268								
218-01-9	Chrysene		0.433U	0.433								
53-70-3	Dibenz(a,h)anthracene		0.217U	0.217								
132-64-9	Dibenzofuran		0.227U	0.227								
95-50-1	1,2-Dichlorobenzene		0.259U	0.259								
541-73-1	1,3-Dichlorobenzene		0.274U	0.274								
91-94-1	3,3'-Dichlorobenzidine		0.297U	0.297								
120-83-2	2,4-Dichlorophenol		0.217U	0.217								
84-66-2	Diethyl phthalate		0.303U	0.303								
105-67-9	2,4-Dimethylphenol		0.694U	0.694								
131-11-3	Dimethyl phthalate		0.255U	0.255								
117-84-0	Di-n-octyl phthalate		0.167U	0.167								
51-28-5	2,4-Dinitrophenol		2.60U	2.60								
606-20-2	2,6-Dinitrotoluene		0.352U	0.352								
206-44-0	Fluoranthene		0.267U	0.267								
86-73-7	Fluorene		0.288U	0.288								
118-74-1	Hexachlorobenzene		0.249U	0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451739	LCS451739	LCSD451739
Prep Batch	451739	**GCAL ID**	925922	925923	925924
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	03/04/2011 10:30	03/04/2011 10:30	03/04/2011 10:30
		Analytical Date	03/07/2011 14:32	03/07/2011 14:50	03/07/2011 15:06
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174								
67-72-1	Hexachloroethane	0.299U	0.299								
78-59-1	Isophorone	0.380U	0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157								
91-57-6	2-Methylnaphthalene	0.255U	0.255								
95-48-7	o-Cresol	0.329U	0.329								
91-20-3	Naphthalene	0.293U	0.293								
98-95-3	Nitrobenzene	0.329U	0.329								
88-75-5	2-Nitrophenol	0.357U	0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364								
85-01-8	Phenanthrene	0.304U	0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275								
100-51-6	Benzyl alcohol	0.355U	0.355								
99-09-2	3-Nitroaniline	0.226U	0.226								
100-01-6	4-Nitroaniline	0.221U	0.221								
84-74-2	Di-n-butyl phthalate	0.189U	0.189								
88-74-4	2-Nitroaniline	0.198U	0.198								
91-58-7	2-Chloronaphthalene	0.221U	0.221								
106-47-8	4-Chloroaniline	0.463U	0.463								
1319-77-3MP	m,p-Cresol	0.352U	0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98								
108-95-2	Phenol	0.150U	0.150	100	30.6	31	13 - 54	30.9	31	1	30
95-57-8	2-Chlorophenol	0.276U	0.276	100	77.9	78	44 - 103	75.7	76	3	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255	100	82.7	83	40 - 100	77.1	77	7	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304	100	84.8	85	51 - 104	85.4	85	0.7	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234	100	88.1	88	45 - 104	81.0	81	8	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234	100	80.4	80	53 - 105	80.2	80	0.2	30
83-32-9	Acenaphthene	0.268U	0.268	100	94.9	95	58 - 106	87.1	87	9	30
100-02-7	4-Nitrophenol	1.83U	1.83	100	32.1	32	13 - 55	35.0	35	9	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263	100	89.6	90	60 - 109	91.1	91	2	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	451931	**Client ID**	MB451739	LCS451739	LCSD451739
Prep Batch	451739	**GCAL ID**	925922	925923	925924
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	03/04/2011 10:30	03/04/2011 10:30	03/04/2011 10:30
		Analytical Date	03/07/2011 14:32	03/07/2011 14:50	03/07/2011 15:06
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	75.3	75	57 - 118	74.1	74	2	30
129-00-0	Pyrene	0.486U	0.486	100	99.5	100	60 - 113	89.4	89	11	30
Surrogate											
4165-60-0	Nitrobenzene-d5	43.6	87	50	48.5	97	52 - 120	49.8	100		
321-60-8	2-Fluorobiphenyl	44.2	88	50	51.6	103	16 - 128	50.1	100		
1718-51-0	Terphenyl-d14	54.4	109	50	59.4	119	43 - 138	56.9	114		
4165-62-2	Phenol-d5	31.2	31	100	34.5	35	10 - 120	38.1	38		
367-12-4	2-Fluorophenol	50.3	50	100	55.9	56	10 - 120	59.8	60		
118-79-6	2,4,6-Tribromophenol	90	90	100	104	104	20 - 120	112	112		

General Chromatography Quality Control Summary

Analytical Batch	451911	**Client ID**	MB451742			LCS451742			LCSD451742		
Prep Batch	451742	**GCAL ID**	925928			925929			925930		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/04/2011 13:32			03/04/2011 13:32			03/04/2011 13:32		
		Analytical Date	03/04/2011 15:49			03/04/2011 16:07			03/04/2011 16:24		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics	44.2U	44.2		1000	672	67	50 - 150	747	75	11	40
Surrogate												
84-15-1	o-Terphenyl	42.1	84		50	41.9	84	57 - 115	42.7	85		

General Chromatography Quality Control Summary

Analytical Batch 452040		**Client ID**	MB452040		LCS452040		
Prep Batch N/A		**GCAL ID**	927286		927287		
		Sample Type	Method Blank		LCS		
		Analytical Date	03/08/2011 15:17		03/08/2011 14:53		
		Matrix	Water		Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	501	100	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	25.9	86	30	28.3	94	49 - 136

Analytical Batch 452040		**Client ID**	AOCU-GW98		AOCU-GW98-MS			AOCU-GW98-MSD				
Prep Batch N/A		**GCAL ID**	21103021607		21103021609			21103021610				
		Sample Type	SAMPLE		MS			MSD				
		Analytical Date	03/08/2011 17:44		03/08/2011 18:08			03/08/2011 18:32				
		Matrix	Water		Water			Water				
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics	0.00	13.0	500	458	92	67 - 171	449	90	2	31
Surrogate											
106-39-8	Bromochlorobenzene			30	28.8	96	49 - 136	28.8	96		

Analytical Batch 452126		**Client ID**	MB452126		LCS452126		
Prep Batch N/A		**GCAL ID**	927662		927663		
		Sample Type	Method Blank		LCS		
		Analytical Date	03/09/2011 16:19		03/09/2011 15:30		
		Matrix	Water		Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	475	95	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	25.3	84	30	27.6	92	49 - 136

General Chromatography Quality Control Summary

Analytical Batch 452126		**Client ID**	WG-1910-MW01-110228			WG-1910-MW01-110228 MS			WG-1910-MW01-110228 MSD			
Prep Batch N/A		**GCAL ID**	21103021506			21103021507			21103021508			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	03/09/2011 23:10			03/09/2011 23:34			03/09/2011 23:58			
		Matrix	Water			Water			Water			
SW-846 8015B Modified			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics		0.00	13.0	500	459	92	67 - 171	456	91	0.7	31
Surrogate												
106-39-8	Bromochlorobenzene				30	27.4	91	49 - 136	27.5	92		

General Chromatography Quality Control Summary

Analytical Batch	451912	**Client ID**	MB451743			LCS451743			LCSD451743		
Prep Batch	451743	**GCAL ID**	925931			925932			925933		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/04/2011 13:32			03/04/2011 13:32			03/04/2011 13:32		
		Analytical Date	03/04/2011 15:49			03/04/2011 16:41			03/04/2011 16:59		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-44	Oil Range Organics	45.7U	45.7		2000	1320	66	50 - 150	1440	72	9	40
Surrogate												
84-15-1	o-Terphenyl	39.5	79		50	40.7	81	57 - 115	39.3	79		

Inorganics Quality Control Summary

Analytical Batch	451556	**Client ID**	MB451809	LCS451809
Prep Batch	451809	**GCAL ID**	926308	926309
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/07/2011 17:51	03/07/2011 17:52
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00551	110	88 - 111

Analytical Batch	452102	**Client ID**	AOCU-GW52-M	AOCU-GW52-M-MS	AOCU-GW52-M-MSD
Prep Batch	451809	**GCAL ID**	21103041022	21103041023	21103041024
Prep Method	SW-846 7470A Dissolved	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/04/2011 11:35	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/09/2011 11:21	03/09/2011 11:23	03/09/2011 11:24
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.00016	0.00500	0.00316	**63***	75 - 125	0.00326	**65***	3	10

Analytical Batch	452103	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451729	**GCAL ID**	21103021632	925878	925879
Prep Method	SW-846 7470A	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/03/2011 12:00	03/03/2011 12:00	03/03/2011 12:00
		Analytical Date	03/09/2011 14:20	03/09/2011 14:25	03/09/2011 14:27
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.000081	0.00500	0.00270	**54***	75 - 125	0.00254	**51***	6	10

Inorganics Quality Control Summary

Analytical Batch	452210	**Client ID**	MB451729	LCS451729
Prep Batch	451729	**GCAL ID**	925876	925877
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	03/03/2011 12:00	03/03/2011 12:00
		Analytical Date	03/09/2011 14:17	03/10/2011 14:21
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00516	103	88 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB451727	LCS451727
Prep Batch	451727	**GCAL ID**	925872	925873
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/08/2011 14:23	03/08/2011 14:31
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.65	93	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.45	90	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.46	92	88 - 109
7440-39-3	Barium	0.00067B	0.00011	0.50	0.48	96	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.48	96	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.46	93	88 - 111
7440-70-2	Calcium	0.11	0.026	5.00	4.50	90	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.44	**89***	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.44	89	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.44	87	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.44	89	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.45	90	89 - 109
7439-95-4	Magnesium	0.047B	0.014	5.00	4.92	98	92 - 113
7439-96-5	Manganese	0.0013B	0.0012	0.50	0.48	96	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.44	89	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.56	96	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.45	90	90 - 110
7440-22-4	Silver	0.00086B	0.00060	0.50	0.47	94	86 - 120
7440-23-5	Sodium	0.66B	0.051	20.0	19.6	98	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.45	90	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.48	96	91 - 111
7440-66-6	Zinc	0.0039B	0.0027	0.50	0.44	88	84 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB451808	LCS451808
Prep Batch	451808	**GCAL ID**	926306	926307
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/08/2011 15:54	03/08/2011 16:02
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.63	93	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	97	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.50	101	88 - 109
7440-39-3	Barium	0.00074B	0.00011	0.50	0.47	94	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.47	93	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.042B	0.026	5.00	4.73	95	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.47	94	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.48	95	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.46	92	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.74	95	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.50	99	89 - 109
7439-95-4	Magnesium	0.033B	0.014	5.00	4.72	94	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.47	94	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.48	96	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.35	94	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.50	100	90 - 110
7440-22-4	Silver	0.00089B	0.00060	0.50	0.49	98	86 - 120
7440-23-5	Sodium	0.051U	0.051	20.0	21.2	106	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.49	98	88 - 108
7440-62-2	Vanadium	0.0011B	0.00082	0.50	0.47	93	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.48	95	84 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451727	**GCAL ID**	21103021632	925874	925875
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/03/2011 12:01	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/08/2011 14:37	03/08/2011 14:44	03/08/2011 14:51
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.22	5.00	4.83	97	83 - 119	4.53	91	6	25
7440-36-0	Antimony	0.031	0.020	0.50	0.55	104	81 - 124	0.55	104	0.2	25
7440-38-2	Arsenic	0.027	0.013	0.50	0.54	103	84 - 124	0.52	100	3	25
7440-39-3	Barium	0.0	0.00055	0.50	0.47	94	85 - 120	0.46	92	2	25
7440-41-7	Beryllium	0.00014	0.00057	0.50	0.48	96	79 - 121	0.46	92	4	25
7440-43-9	Cadmium	0.0	0.00055	0.50	0.46	92	82 - 119	0.43	86	7	25
7440-70-2	Calcium	801	0.13	5.00	828	**532***	48 - 153	800	**-20***	3	25
7440-47-3	Chromium	0.010	0.0017	0.50	0.47	91	73 - 135	0.45	88	4	25
7440-48-4	Cobalt	0.0	0.0020	0.50	0.47	93	82 - 119	0.45	90	4	25
7440-50-8	Copper	0.032	0.0069	0.50	0.55	104	82 - 129	0.55	104	0.3	25
7439-89-6	Iron	0.0	0.19	5.00	4.59	92	52 - 155	4.30	86	7	25
7439-92-1	Lead	0.0	0.0070	0.50	0.43	86	62 - 146	0.42	83	3	25
7439-95-4	Magnesium	1690	0.072	5.00	1750	**1090***	62 - 146	1690	**-100***	4	25
7439-96-5	Manganese	0.39	0.0062	0.50	0.88	99	79 - 121	0.85	93	3	25
7440-02-0	Nickel	0.018	0.0048	0.50	0.47	91	84 - 120	0.46	88	3	25
7440-09-7	Potassium	73.6	0.26	10.0	90.6	**170***	76 - 132	87.7	**141***	3	25
7782-49-2	Selenium	0.014	0.022	0.50	0.55	108	71 - 140	0.49	96	11	25
7440-22-4	Silver	0.0	0.0030	0.50	0.54	107	75 - 141	0.52	104	3	25
7440-28-0	Thallium	0.0	0.0088	0.50	0.43	**86***	90 - 116	0.40	**80***	7	25
7440-62-2	Vanadium	0.0	0.0041	0.50	0.31	**61***	85 - 120	0.29	**58***	6	25
7440-66-6	Zinc	0.0	0.014	0.50	0.42	85	60 - 137	0.40	81	5	25

Analytical Batch	452019	**Client ID**	AOCU-GW84-M	925760MS	925760MSD
Prep Batch	451727	**GCAL ID**	21103021632	925874	925875
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/03/2011 12:01	03/03/2011 12:01	03/03/2011 12:01
		Analytical Date	03/09/2011 08:33	03/09/2011 08:41	03/09/2011 08:49
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	13500	2.57	20.0	13500	**-50***	70 - 203	13500	**-100***	0.1	25

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-GW52-M	AOCU-GW52-M-MS	AOCU-GW52-M-MSD
Prep Batch	451808	**GCAL ID**	21103041022	21103041023	21103041024
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/08/2011 16:17	03/08/2011 16:24	03/08/2011 16:31
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.23	1.10	5.00	4.41	84	83 - 119	5.03	96	13	25
7440-36-0	Antimony	0.083	0.10	0.50	0.60	103	81 - 124	0.62	108	4	25
7440-38-2	Arsenic	0.024	0.063	0.50	0.53	101	84 - 124	0.56	107	5	25
7440-39-3	Barium	0.0	0.0028	0.50	0.43	86	85 - 120	0.43	86	0.6	25
7440-41-7	Beryllium	0.00046	0.0029	0.50	0.45	91	79 - 121	0.45	91	0.2	25
7440-43-9	Cadmium	0.0	0.0028	0.50	0.43	85	82 - 119	0.44	87	2	25
7440-70-2	Calcium	805	0.64	5.00	793	**-200***	48 - 153	868	**1260***	9	25
7440-47-3	Chromium	0.033	0.0086	0.50	0.47	88	73 - 135	0.46	86	2	25
7440-48-4	Cobalt	0.0	0.0099	0.50	0.44	89	82 - 119	0.45	90	1	25
7440-50-8	Copper	0.15	0.034	0.50	1.06	**182***	82 - 129	1.03	**177***	2	25
7439-89-6	Iron	0.0	0.94	5.00	4.22	84	52 - 155	4.56	91	8	25
7439-92-1	Lead	0.0	0.035	0.50	0.36	71	62 - 146	0.38	76	6	25
7439-95-4	Magnesium	7740	0.36	5.00	7630	**-2000***	62 - 146	8290	**11100***	8	25
7439-96-5	Manganese	1.28	0.031	0.50	1.76	97	79 - 121	1.66	**76***	6	25
7440-02-0	Nickel	0.050	0.024	0.50	0.62	114	84 - 120	0.63	116	2	25
7440-09-7	Potassium	213	1.32	10.0	217	**40***	76 - 132	244	**305***	11	25
7782-49-2	Selenium	0.0	0.11	0.50	0.42	83	71 - 140	0.44	88	6	25
7440-22-4	Silver	0.0	0.015	0.50	0.46	92	75 - 141	0.45	91	2	25
7440-28-0	Thallium	0.0	0.044	0.50	0.34	**68***	90 - 116	0.37	**74***	8	25
7440-62-2	Vanadium	0.0	0.020	0.50	0.0	**0***	85 - 120	0.0	**0***	0	25
7440-66-6	Zinc	0.0	0.068	0.50	0.62	124	60 - 137	0.59	119	4	25

Analytical Batch	452662	**Client ID**	AOCU-GW52-M	AOCU-GW52-M-MS	AOCU-GW52-M-MSD
Prep Batch	451808	**GCAL ID**	21103041022	21103041023	21103041024
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/17/2011 13:40	03/17/2011 13:47	03/17/2011 13:55
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	42300	12.9	20.0	43900	**8030***	70 - 203	41900	**-2000***	5	25

General Chemistry Quality Control Summary

Analytical Batch 451765	**Client ID**	MB451765			LCS451765		
Prep Batch N/A	**GCAL ID**	926040			926041		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/03/2011 15:30			03/03/2011 15:30		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	942	94.2	90 - 110

Analytical Batch 451765	**Client ID**	U43010B		925733DUP		
Prep Batch N/A	**GCAL ID**	21103030401		926042		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/03/2011 15:30		03/03/2011 15:30		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	3276	10.0	3230	1.4	5

General Chemistry Quality Control Summary

Analytical Batch 451724	**Client ID**	MB451724			LCS451724		
Prep Batch N/A	**GCAL ID**	925865			925866		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/03/2011 12:04			03/03/2011 12:05		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.537	107	89.5 -110.5

Analytical Batch 451724	**Client ID**	AOCU-GW69			925800MS			925800MSD			
Prep Batch N/A	**GCAL ID**	21103030907			925867			925868			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/03/2011 13:08			03/03/2011 13:10			03/03/2011 13:11			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		42.5	0.520	100	148	105	89.5 -110.5	146	104	1	25

Analytical Batch 451724	**Client ID**	301-060			925467MS			925467MSD			
Prep Batch N/A	**GCAL ID**	21103024101			925880			925881			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/03/2011 12:49			03/03/2011 12:50			03/03/2011 12:52			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		23.8	0.260	50.0	77.6	107	89.5 -110.5	77.5	107	0.07	25

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW73	AOCU-GW73	01032011	1300	-	N	1	WG	10	X	X	X	X		X	X							1			1
AOCU-GW72	AOCU-GW72	01032011	1400	-	N	1	WG	10	X	X	X	X		X	X							2			1
Trip Blank		01032011	1300	-	TB	1	WQ	3	X													3	HA-0285050		1
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	3/2/11	1400			
2.	Fedex	3-3-11	850		3-3-11	850
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.5

Airbill Number: 796820601930

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW68	AOCU-GW68	01032011	1530	-	N	1	WG	10	X	X	X	X		X	X								4		2
AOCU-GW71	AOCU-GW71	01032011	1420	-	N	1	WG	10	X	X	X	X		X	X								5		2
Trip Blank		01032011	1420	-	TB	1	WQ	3	X														6	HA-028050	2
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/2/11	1400			
2.	[signature]	3-3-11	850	[signature]	3-3-11	8 5
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 4.6

Airbill Number: 7944 8312 4467

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW69	AOCU-GW69	01032011	1250	-	N	1	WG	10	X	X	X	X		X	X							7			3
AOCU-GW69-A	AOCU-GW69-A	01032011	1250	-	FD	1	WG	10	X	X	X	X		X	X							8			3
Trip Blank		01032011	1250	-	TB	1	WQ	3	X													9	HA-0285050		3
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/2/11	1400	1.		
2. Fedex	3-3-11	850	2. [signature]	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 4.1

Airbill Number: 7968 2059 1306

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW57	AOCU-GW57	02032011	1000	-	N	1	WG	10	X	X	X	X		X	X							10		5
AOCU-GW59	AOCU-GW59	02032011	0915	-	N	1	WG	10	X	X	X	X		X	X							11		5
Trip Blank		02032011	0915	-	TB	1	WQ	3	X													12		5
				-																		HA	028505	
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/2/11	1400	1.		
2. [signature]	3-3-11	850	2. [signature]	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt 27

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FedEx Express Airbill Number: 7968 2057 9588

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW64	AOCU-GW64	02032011	0930	-	N	1	WG	10	X	X	X	X		X	X						13			6
AOCU-GW66	AOCU-GW66	02032011	1030	-	N	1	WG	10	X	X	X	X		X	X						14			6
Trip Blank		02032011	0930	-	TB	1	WQ	3	X												15	JHm ~~HA028050~~		6
				-																		HA028505O		
				-																				
				-																				
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				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/2/11	1400	1.		
2. Foley	3-3-11	850	2. M	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.6

Airbill Number: 796820574277

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW56	AOCU-GW56	02032011	1040	-	N	1	WG	10	X	X	X	X		X	X						16			7
Trip Blank		02032011	1040	-	TB	1	WQ	3	X												17	HA-0285050		7
				-																				
				-																				
				-																				
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				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/2/11	1400	1.		
2. [signature]	3-3-11	850	2. [signature]	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.2

Airbill Number: 794483099326

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm) AM	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW68-M	AOCU-GW68	01032011	~~1530~~	1331 -	N	1	WG	1					X										18		4
AOCU-GW69-M	AOCU-GW69	01032011	~~1250~~	1251 -	N	1	WG	1					X										19		4
AOCU-GW69A-M	AOCU-GW69A	01032011	~~1250~~	1251 -	FD	1	WG	1					X										20		4
AOCU-GW71-M	AOCU-GW71	01032011	~~1420~~	1421 -	N	1	WG	1					X										21		4
AOCU-GW72-M	AOCU-GW72	01032011	~~1400~~	1401 -	N	1	WG	1					X										22		4
AOCU-GW73-M	AOCU-GW73	01032011	~~1300~~	1301 -	N	1	WG	1					X										23		4
AOCU-GW84 *	AOCU-GW84	01032011	0920	-	N	1	WG	1					X										~~24~~		4
AOCU-GW86 *	AOCU-GW86	01032011	1055	-	N	1	WG	1					X												4
AOCU-GW89 *	AOCU-GW89	01032011	0900	-	N	1	WG	1					X												4
AOCU-GW91 *	AOCU-GW91	01032011	1000	-	N	1	WG	1					X												4
				-																					

Sample Analysis Requested (5) — Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J.H. Moore	3/2/11	1400	1.		
2. Felen	3-3-11	850	2. NC	3-3-11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 3.2

Airbill Number: 796820585377

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples are a separate water

NATIONVIEW /9771/211030309/3-11-11

Project No: 8090006.02.010

COC Number(1): 030311-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW47	AOCU-GW47	02032011	1430	-	N	1	WG	1					X												5
AOCU-GW47-A	AOCU-GW47A	02032011	1430	-	FD	1	WG	1					X												5
AOCU-GW50	AOCU-GW50	02032011	1330	-	N	1	WG	1					X												5
AOCU-GW52	AOCU-GW52	02032011	1415	-	N	1	WG	1					X												5
AOCU-GW52-MS	AOCU-GW52-MS	02032011	1415	-	MS	1	WG	1					X												5
AOCU-GW52-MSD	AOCU-GW52-MSD	02032011	1415	-	SD	1	WG	1					X												5
AOCU-GW54	AOCU-GW54	02032011	1310	-	N	1	WG	1					X												5
AOCU-GW56 M*	AOCU-GW56	02032011	~~1040~~ 0941	1041 -	N	1	WG	1					X											24	5
AOCU-GW57-M*	AOCU-GW57	02032011	~~1000~~	1001 -	N	1	WG	1					X											25	5
AOCU-GW59 M*	AOCU-GW59	02032011	~~0915~~	0916 -	N	1	WG	1					X											26	5
AOCU-GW64-M*	AOCU-GW64	02032011	~~0930~~	0931 -	N	1	WG	1					X											27	5

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3/4/11	910	[signature]	3-4-11	910
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 53

Airbill Number: 794488290680

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SB = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* Samples are in the water only.

NATIONVIEW/9771/21103030 4/3-11-11

Project No: 8090006.02.010

COC Number(1): 030311-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOC4-GW66-M	AOC4-GW66	02032011	~~1030~~ 1030	103 -	N	1	WG	1					X											28	5
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3-4-11	910	[signature]	3-4-11	910
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.: 5.3

Method of Shipment: FedEx Express

Airbill Number: 794488290680

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211030309

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Raborn, Michelle

Received Date/Time: 3/3/2011 8:50:00 AM

Samples Received via: FEDEX

Number of Coolers Received: _____

Cooler tracking numbers(s): 7944 5309 9326 7968 2055 5377 7944 8820 6880 7968 2061 9330 7944 5324 467 7968 2059 1366 7968 2057 9588 7968 2057 9277

Cooler temperature(s): 1.5 4.6 4.1 2.7 1.6 1.2 3.2 5.3

Were all coolers received at a temperature of 0 - 6° C?	☐ Yes	☐ No	☐ N/A
Were all custody seals intact?	☐ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☐ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☐ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☐ No	☐ N/A
Were all containers received in good condition?	☐ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☐ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☐ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☐ N/A

Notes/Comments: _____

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 04/04/2011

GCAL Report 211030410

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Customer NationView LLC

Project AOC-U RFI Investigarion

CASE NARRATIVE

Client: NationView LLC **Report:** 211030410

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 04/04/11. The data was revised to include estimated values in the report.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 451901, the MS/MSD exhibited recovery and RPD failures. The LCS/LCSD recoveries are acceptable. Acrylonitrile exhibited a %D value greater than 40 in the ICV. Acrylonitrile was not detected in any samples. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples.

In the SW-846 8260B analysis for analytical batch 451920, the LCS and/or LCSD recoveries are above the upper control limit for Acrylonitrile. This compound was not detected in the associated samples.

METALS

In the SW-846 7470A Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103041022 (AOCU-GW52), 21103041023 (AOCU-GW52-MS) and 21103041024 (AOCU-GW52-MSD). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103041022 (AOCU-GW52), 21103041023 (AOCU-GW52-MS), 21103041024 (AOCU-GW52-MSD), 21103041021 (AOCU-GW50), 21103041026 (AOCU-GW39), 21103041027 (AOCU-GW43), 21103041019 (AOCU-GW47), 21103041028 (AOCU-GW45), 21103041029 (AOCU-GW41) and 21103041025 (AOCU-GW54). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 451808, the MS and/or MSD recoveries are outside the control limits for Copper, Manganese and Vanadium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 102% for Copper, 103% for Manganese and 96% for Vanadium. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration. The MS and/or MSD recovery is outside the control limits for Thallium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B Dissolved analysis for prep batch 451923, the MS and/or MSD recoveries are outside the control limits for Thallium and Vanadium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 94% for Thallium and 98% for Vanadium. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A Dissolved analysis for prep batches 451809 and 451925, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21103041011 (AOCU-GW50), 21103041008 (AOCU-GW47), 21103041009 (AOCU-GW47-A), 21103041014 (AOCU-GW45), 21103041017 (AOCU-GW41) and 21103041013 (AOCU-GW43) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SM 2540 C analysis, samples 21103041001 (AOCU-GW54), 21103041011 (AOCU-GW50), 21103041002 (AOCU-GW52), 21103041006 (AOCU-GW52-DUP), 21103041008 (AOCU-GW47), 21103041009 (AOCU-GW47-A), 21103041014 (AOCU-GW45), 21103041017 (AOCU-GW41), 21103041013 (AOCU-GW43), 21103041016 (AOCU-GW39) and 21103041005 (AOCU-GW52-MSD) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211030410

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	AOCU-GW54	Water	03/02/2011 13:10	03/04/2011 09:10
21103041002	AOCU-GW52	Water	03/02/2011 14:15	03/04/2011 09:10
21103041003	TRIP BLANK	Water	03/02/2011 13:10	03/04/2011 09:10
21103041004	AOCU-GW52-MS	Water	03/02/2011 14:15	03/04/2011 09:10
21103041005	AOCU-GW52-MSD	Water	03/02/2011 14:15	03/04/2011 09:10
21103041006	AOCU-GW52-DUP	Water	03/02/2011 14:15	03/04/2011 09:10
21103041007	TRIP BLANK	Water	03/02/2011 14:15	03/04/2011 09:10
21103041008	AOCU-GW47	Water	03/02/2011 14:30	03/04/2011 09:10
21103041009	AOCU-GW47-A	Water	03/02/2011 14:30	03/04/2011 09:10
21103041010	TRIP BLANK	Water	03/02/2011 14:30	03/04/2011 09:10
21103041011	AOCU-GW50	Water	03/02/2011 13:30	03/04/2011 09:10
21103041012	TRIP BLANK	Water	03/02/2011 13:30	03/04/2011 09:10
21103041013	AOCU-GW43	Water	03/03/2011 09:55	03/04/2011 09:10
21103041014	AOCU-GW45	Water	03/03/2011 08:50	03/04/2011 09:10
21103041015	TRIP BLANK	Water	03/03/2011 08:50	03/04/2011 09:10
21103041016	AOCU-GW39	Water	03/03/2011 10:15	03/04/2011 09:10
21103041017	AOCU-GW41	Water	03/03/2011 09:00	03/04/2011 09:10
21103041018	TRIP BLANK	Water	03/03/2011 09:00	03/04/2011 09:10
21103041019	AOCU-GW47-M	Water	03/02/2011 14:31	03/04/2011 09:10
21103041020	AOCU-GW47-A-M	Water	03/02/2011 14:31	03/04/2011 09:10
21103041021	AOCU-GW50-M	Water	03/02/2011 13:31	03/04/2011 09:10
21103041022	AOCU-GW52-M	Water	03/02/2011 14:16	03/04/2011 09:10
21103041023	AOCU-GW52-M-MS	Water	03/02/2011 14:16	03/04/2011 09:10
21103041024	AOCU-GW52-M-MSD	Water	03/02/2011 14:16	03/04/2011 09:10
21103041025	AOCU-GW54-M	Water	03/02/2011 13:11	03/04/2011 09:10
21103041026	AOCU-GW39-M	Water	03/03/2011 10:16	03/05/2011 09:15
21103041027	AOCU-GW43-M	Water	03/03/2011 09:56	03/05/2011 09:15
21103041028	AOCU-GW45-M	Water	03/03/2011 08:51	03/05/2011 09:15
21103041029	AOCU-GW41-M	Water	03/03/2011 09:01	03/05/2011 09:15

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	**AOCU-GW54**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 01:39	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	**AOCU-GW54**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 01:39	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.6	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 01:39	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	**AOCU-GW54**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 12:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	**AOCU-GW54**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 12:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.6	ug/L	91	52 - 120
321-60-8	2-Fluorobiphenyl	50	40	ug/L	80	16 - 128
1718-51-0	Terphenyl-d14	50	43.8	ug/L	88	43 - 138
4165-62-2	Phenol-d5	100	62.2	ug/L	62	10 - 120
367-12-4	2-Fluorophenol	100	69.3	ug/L	69	10 - 120
118-79-6	2,4,6-Tribromophenol	100	101	ug/L	101	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 11:25	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.4	ug/L	91	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 14:54	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.7	ug/L	82	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041001	**AOCU-GW54**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 11:25	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.6	ug/L	85	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**185000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/04/2011 11:33	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.139**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041002	**AOCU-GW52**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 22:34	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041002	**AOCU-GW52**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 22:34	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.2	ug/L	86	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	50.6	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.6	ug/L	107	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 22:34	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041002	**AOCU-GW52**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 12:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041002	**AOCU-GW52**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 12:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	48.3	ug/L	97	52 - 120
321-60-8	2-Fluorobiphenyl	50	43.3	ug/L	87	16 - 128
1718-51-0	Terphenyl-d14	50	32.4	ug/L	65	43 - 138
4165-62-2	Phenol-d5	100	59.6	ug/L	60	10 - 120
367-12-4	2-Fluorophenol	100	71.2	ug/L	71	10 - 120
118-79-6	2,4,6-Tribromophenol	100	108	ug/L	108	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 11:43	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.9	ug/L	94	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 15:18	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.8	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041002	**AOCU-GW52**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 11:43	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44	ug/L	88	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**166000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/04/2011 11:35	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.110**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041003	**TRIP BLANK**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:02	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041003	**TRIP BLANK**	Water	03/02/2011 13:10	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:02	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	46.9	ug/L	94	87 - 116
2037-26-5	Toluene d8	50	46.9	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041004	**AOCU-GW52-MS**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 22:58	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	44.3	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	48.1	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	64.2	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	49.8	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	54.2	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.7	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	46.1	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.8	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	97.6	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.9	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.2	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	81.9	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	52.0	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	46.4	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.6	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	53.8	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.1	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	44.9	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	52.0	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	44.2	5	0.058	ug/L
544-10-5	1-Chlorohexane	37.7	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	47.4	5	0.112	ug/L
78-93-3	2-Butanone	85.7	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	45.6	5	0.090	ug/L
591-78-6	2-Hexanone	92.8	5	0.302	ug/L
106-43-4	4-Chlorotoluene	46.7	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	46.0	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	83.6	5	0.142	ug/L
67-64-1	Acetone	62.4	25	0.322	ug/L
107-02-8	Acrolein	344	25	2.49	ug/L
107-13-1	Acrylonitrile	349	25	1.62	ug/L
71-43-2	Benzene	49.0	5	0.049	ug/L
108-86-1	Bromobenzene	46.9	5	0.095	ug/L
74-97-5	Bromochloromethane	44.0	5	0.238	ug/L
75-27-4	Bromodichloromethane	48.9	5	0.071	ug/L
75-25-2	Bromoform	54.0	5	0.278	ug/L
74-83-9	Bromomethane	47.6	5	0.276	ug/L
75-15-0	Carbon disulfide	47.4	5	0.190	ug/L
56-23-5	Carbon tetrachloride	48.1	5	0.056	ug/L
108-90-7	Chlorobenzene	42.2	5	0.055	ug/L
75-00-3	Chloroethane	17.4	5	0.279	ug/L
67-66-3	Chloroform	47.2	5	0.062	ug/L
74-87-3	Chloromethane	48.8	5	0.076	ug/L
124-48-1	Dibromochloromethane	50.1	5	0.133	ug/L
74-95-3	Dibromomethane	51.4	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	50.3	5	0.088	ug/L
100-41-4	Ethylbenzene	43.2	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	53.1	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	42.0	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041004	**AOCU-GW52-MS**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 22:58	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**42.3**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**48.9**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**48.4**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**44.3**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**42.3**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**45.9**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**45.6**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**49.7**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**48.3**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**57.7**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**52.7**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.0**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.2**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**84.1**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**50.0**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**44.4**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**45.7**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**42.7**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**47.3**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.8**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.3**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**51.2**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**50.2**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**165**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.4	ug/L	111	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**67.2**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**65.4**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**90.5**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041004	**AOCU-GW52-MS**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**81.4**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**86.9**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**37.5**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**81.3**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**68.9**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**51.3**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**87.2**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041004	**AOCU-GW52-MS**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**85.5**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.6	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.2	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	41.1	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	55.3	ug/L	55	10 - 120
367-12-4	2-Fluorophenol	100	66.9	ug/L	67	10 - 120
118-79-6	2,4,6-Tribromophenol	100	95.6	ug/L	96	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 12:00	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**885**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.4	ug/L	87	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 15:42	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**387**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	28.3	ug/L	94	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 12:36	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1500**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.7	ug/L	87	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041004	**AOCU-GW52-MS**	Water	03/02/2011 14:15	03/04/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/04/2011 11:37	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.608**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041005	**AOCU-GW52-MSD**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 23:20	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	45.5	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	47.6	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	65.8	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	53.1	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	54.7	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	50.3	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	48.1	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	52.0	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	97.5	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	49.9	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	47.8	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	86.6	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	53.1	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	48.7	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.9	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	54.3	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.7	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	46.4	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	54.9	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	46.2	5	0.058	ug/L
544-10-5	1-Chlorohexane	40.1	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	46.7	5	0.112	ug/L
78-93-3	2-Butanone	87.7	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	46.7	5	0.090	ug/L
591-78-6	2-Hexanone	96.9	5	0.302	ug/L
106-43-4	4-Chlorotoluene	47.3	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	49.1	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	86.8	5	0.142	ug/L
67-64-1	Acetone	62.2	25	0.322	ug/L
107-02-8	Acrolein	321	25	2.49	ug/L
107-13-1	Acrylonitrile	345	25	1.62	ug/L
71-43-2	Benzene	49.8	5	0.049	ug/L
108-86-1	Bromobenzene	49.2	5	0.095	ug/L
74-97-5	Bromochloromethane	47.8	5	0.238	ug/L
75-27-4	Bromodichloromethane	50.9	5	0.071	ug/L
75-25-2	Bromoform	55.8	5	0.278	ug/L
74-83-9	Bromomethane	51.2	5	0.276	ug/L
75-15-0	Carbon disulfide	49.4	5	0.190	ug/L
56-23-5	Carbon tetrachloride	49.7	5	0.056	ug/L
108-90-7	Chlorobenzene	44.7	5	0.055	ug/L
75-00-3	Chloroethane	17.1	5	0.279	ug/L
67-66-3	Chloroform	46.4	5	0.062	ug/L
74-87-3	Chloromethane	56.2	5	0.076	ug/L
124-48-1	Dibromochloromethane	52.7	5	0.133	ug/L
74-95-3	Dibromomethane	53.6	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	49.9	5	0.088	ug/L
100-41-4	Ethylbenzene	45.7	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	56.5	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	44.1	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041005	**AOCU-GW52-MSD**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/06/2011 23:20	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**48.9**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**49.4**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**58.5**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**45.7**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**43.7**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**46.5**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**46.6**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**51.4**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**48.6**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**57.1**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**55.6**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**51.4**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**51.1**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**89.0**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**53.6**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**43.8**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.9**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**45.2**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**49.5**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**54.6**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.5**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**51.2**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**53.1**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**158**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:19	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**63.0**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**61.3**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**81.6**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041005	**AOCU-GW52-MSD**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:19	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**72.7**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**79.4**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**32.4**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**76.0**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**62.2**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**45.7**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**78.8**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041005	**AOCU-GW52-MSD**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:19	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**77.9**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	39.2	ug/L	78	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.5	ug/L	71	16 - 128
1718-51-0	Terphenyl-d14	50	42.6	ug/L	85	43 - 138
4165-62-2	Phenol-d5	100	49.4	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	58.6	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	84.7	ug/L	85	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 12:18	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**937**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.3	ug/L	93	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 16:06	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**352**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	28	ug/L	93	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 13:30	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1510**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.9	ug/L	86	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041005	**AOCU-GW52-MSD**	Water	03/02/2011 14:15	03/04/2011 09:10

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/04/2011 11:38	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.596**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041006	**AOCU-GW52-DUP**	Water	03/02/2011 14:15	03/04/2011 09:10

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**165000**	**500**	**500**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041007	**TRIP BLANK**	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:25	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041007	TRIP BLANK	Water	03/02/2011 14:15	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:25	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.1	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	47.4	ug/L	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.8	ug/L	106	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041008	**AOCU-GW47**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:48	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041008	**AOCU-GW47**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:48	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51.5	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 02:48	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041008	**AOCU-GW47**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041008	**AOCU-GW47**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.8	ug/L	92	52 - 120
321-60-8	2-Fluorobiphenyl	50	41.5	ug/L	83	16 - 128
1718-51-0	Terphenyl-d14	50	49.3	ug/L	99	43 - 138
4165-62-2	Phenol-d5	100	62.8	ug/L	63	10 - 120
367-12-4	2-Fluorophenol	100	74	ug/L	74	10 - 120
118-79-6	2,4,6-Tribromophenol	100	101	ug/L	101	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 13:48	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**57.4J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.6	ug/L	87	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 16:32	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.3	ug/L	84	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041008	**AOCU-GW47**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 13:48	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41	ug/L	82	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**174000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/04/2011 11:39	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**86.2**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041009	**AOCU-GW47-A**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:11	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041009	**AOCU-GW47-A**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:11	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	51.9	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.3	ug/L	111	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:11	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041009	**AOCU-GW47-A**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041009	**AOCU-GW47-A**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 13:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	39	ug/L	78	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.7	ug/L	71	16 - 128
1718-51-0	Terphenyl-d14	50	43.8	ug/L	88	43 - 138
4165-62-2	Phenol-d5	100	53	ug/L	53	10 - 120
367-12-4	2-Fluorophenol	100	61.5	ug/L	62	10 - 120
118-79-6	2,4,6-Tribromophenol	100	77.4	ug/L	77	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 14:06	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	38.3	ug/L	77	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 17:44	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.7	ug/L	82	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041009	**AOCU-GW47-A**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 14:06	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	35.9	ug/L	72	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**157000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/04/2011 11:40	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**87.7**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041010	**TRIP BLANK**	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:34	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041010	TRIP BLANK	Water	03/02/2011 14:30	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:34	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	47.5	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	49.4	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041011	**AOCU-GW50**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:57	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041011	**AOCU-GW50**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:57	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 03:57	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041011	**AOCU-GW50**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041011	**AOCU-GW50**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	40.8	ug/L	82	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.2	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	48	ug/L	96	43 - 138
4165-62-2	Phenol-d5	100	42.2	ug/L	42	10 - 120
367-12-4	2-Fluorophenol	100	55.7	ug/L	56	10 - 120
118-79-6	2,4,6-Tribromophenol	100	88.2	ug/L	88	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 14:23	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**56.6J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.5	ug/L	93	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 18:08	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.1	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041011	**AOCU-GW50**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 14:23	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.6	ug/L	87	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**85200**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	03/04/2011 11:34	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**86.1**	**2.00**	**0.520**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041012	**TRIP BLANK**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 04:20	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041012	**TRIP BLANK**	Water	03/02/2011 13:30	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 04:20	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.3	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	47.7	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	49.7	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.1	ug/L	106	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041013	**AOCU-GW43**	Water	03/03/2011 09:55	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 04:42	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041013	**AOCU-GW43**	Water	03/03/2011 09:55	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 04:42	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.4	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 04:42	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041013	**AOCU-GW43**	Water	03/03/2011 09:55	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:19	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041013	**AOCU-GW43**	Water	03/03/2011 09:55	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:19	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.6	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.3	ug/L	79	16 - 128
1718-51-0	Terphenyl-d14	50	48.2	ug/L	96	43 - 138
4165-62-2	Phenol-d5	100	61.6	ug/L	62	10 - 120
367-12-4	2-Fluorophenol	100	68.9	ug/L	69	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.8	ug/L	91	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 14:41	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**102J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.1	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 18:32	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.9	ug/L	83	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041013	**AOCU-GW43**	Water	03/03/2011 09:55	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 14:41	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.5	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**120000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 11:47	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**18.1**	**0.500**	**0.130**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041014	**AOCU-GW45**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:04	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041014	**AOCU-GW45**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:04	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	48.4	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	49.5	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:04	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041014	**AOCU-GW45**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041014	**AOCU-GW45**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:34	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	46	ug/L	92	52 - 120
321-60-8	2-Fluorobiphenyl	50	43.9	ug/L	88	16 - 128
1718-51-0	Terphenyl-d14	50	54	ug/L	108	43 - 138
4165-62-2	Phenol-d5	100	56	ug/L	56	10 - 120
367-12-4	2-Fluorophenol	100	67.2	ug/L	67	10 - 120
118-79-6	2,4,6-Tribromophenol	100	95.1	ug/L	95	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 14:59	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.2	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 18:56	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.3	ug/L	84	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041014	**AOCU-GW45**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 14:59	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.6	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**118000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	03/04/2011 11:44	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**123**	**2.00**	**0.520**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041015	**TRIP BLANK**	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:28	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041015	TRIP BLANK	Water	03/03/2011 08:50	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:28	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.4	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	47.1	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.1	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041016	**AOCU-GW39**	Water	03/03/2011 10:15	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:50	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041016	**AOCU-GW39**	Water	03/03/2011 10:15	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:50	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.8	ug/L	88	84 - 120
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	49.5	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.3	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 05:50	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041016	**AOCU-GW39**	Water	03/03/2011 10:15	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041016	**AOCU-GW39**	Water	03/03/2011 10:15	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 14:49	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	48.5	ug/L	97	52 - 120
321-60-8	2-Fluorobiphenyl	50	44.8	ug/L	90	16 - 128
1718-51-0	Terphenyl-d14	50	50.6	ug/L	101	43 - 138
4165-62-2	Phenol-d5	100	72.9	ug/L	73	10 - 120
367-12-4	2-Fluorophenol	100	80.5	ug/L	81	10 - 120
118-79-6	2,4,6-Tribromophenol	100	116	ug/L	116	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 15:17	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.7	ug/L	87	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 19:21	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	24.2	ug/L	81	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041016	**AOCU-GW39**	Water	03/03/2011 10:15	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 15:17	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	41	ug/L	82	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**187000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/04/2011 11:48	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.149**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041017	**AOCU-GW41**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 06:13	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041017	**AOCU-GW41**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 06:13	RJO	451901

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.2	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	53.3	ug/L	107	87 - 116
2037-26-5	Toluene d8	50	49.6	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	56.2	ug/L	112	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 06:13	RJO	451972

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041017	**AOCU-GW41**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 15:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041017	**AOCU-GW41**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 07:05	451817	3510C	1	03/08/2011 15:04	JEW	452046

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.8	ug/L	92	52 - 120
321-60-8	2-Fluorobiphenyl	50	43.4	ug/L	87	16 - 128
1718-51-0	Terphenyl-d14	50	52.3	ug/L	105	43 - 138
4165-62-2	Phenol-d5	100	58.8	ug/L	59	10 - 120
367-12-4	2-Fluorophenol	100	69.5	ug/L	70	10 - 120
118-79-6	2,4,6-Tribromophenol	100	98.6	ug/L	99	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451820	3510C	1	03/07/2011 15:38	SMH	452004

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**109J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.7	ug/L	89	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 19:45	BMR	452167

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.6	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041017	**AOCU-GW41**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/05/2011 11:37	451823	3510C	1	03/07/2011 15:38	SMH	452005

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42	ug/L	84	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 13:40	DJH	451833

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**148000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/04/2011 11:45	AEL	451807

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**38.8**	**0.500**	**0.130**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041018	**TRIP BLANK**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:33	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041018	**TRIP BLANK**	Water	03/03/2011 09:00	03/04/2011 09:10

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:33	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.4	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.5	ug/L	109	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041019	**AOCU-GW47-M**	Water	03/02/2011 14:31	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:11	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/10/2011 18:54	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.20B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**1710**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.080B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.32**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**12000**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**1.49**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.12B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**306**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	250	03/10/2011 21:04	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**45600**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041020	**AOCU-GW47-A-M**	Water	03/02/2011 14:31	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:13	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/10/2011 19:01	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.11B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**1630**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.083B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.35**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**11500**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**1.46**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.12B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**292**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	250	03/10/2011 21:11	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**46200**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041021	**AOCU-GW50-M**	Water	03/02/2011 13:31	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:15	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	5	03/08/2011 21:54	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	Antimony	0.020U	0.30	0.020	mg/L
7440-38-2	**Arsenic**	**0.073**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**2620**	**0.50**	**0.13**	**mg/L**
7440-47-3	Chromium	0.0017U	0.050	0.0017	mg/L
7440-48-4	**Cobalt**	**0.0030B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**4410**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.32**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.032B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**134**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	50	03/10/2011 21:18	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16000**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041022	**AOCU-GW52-M**	Water	03/02/2011 14:16	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	2	03/09/2011 11:21	AJW	452102

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00016U	0.00040	0.00016	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/08/2011 16:17	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	Antimony	0.10U	1.50	0.10	mg/L
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**805**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.033B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.15B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**7740**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**1.28**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.050B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**213**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	250	03/17/2011 13:40	BNB	452662

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**42300**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041023	**AOCU-GW52-M-MS**	Water	03/02/2011 14:16	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	2	03/09/2011 11:23	AJW	452102

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00316**	**0.00040**	**0.00016**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/08/2011 16:24	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.41B**	**5.00**	**1.10**	**mg/L**
7440-36-0	**Antimony**	**0.60B**	**1.50**	**0.10**	**mg/L**
7440-38-2	**Arsenic**	**0.53**	**0.25**	**0.063**	**mg/L**
7440-39-3	**Barium**	**0.43**	**0.25**	**0.0028**	**mg/L**
7440-41-7	**Beryllium**	**0.45**	**0.13**	**0.0029**	**mg/L**
7440-43-9	**Cadmium**	**0.43**	**0.13**	**0.0028**	**mg/L**
7440-70-2	**Calcium**	**793**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.47**	**0.25**	**0.0086**	**mg/L**
7440-48-4	**Cobalt**	**0.44**	**0.25**	**0.0099**	**mg/L**
7440-50-8	**Copper**	**1.06**	**0.25**	**0.034**	**mg/L**
7439-89-6	**Iron**	**4.22**	**2.50**	**0.94**	**mg/L**
7439-92-1	**Lead**	**0.36B**	**0.38**	**0.035**	**mg/L**
7439-95-4	**Magnesium**	**7630**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**1.76**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.62B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**217**	**12.5**	**1.32**	**mg/L**
7782-49-2	**Selenium**	**0.42B**	**1.00**	**0.11**	**mg/L**
7440-22-4	**Silver**	**0.46**	**0.25**	**0.015**	**mg/L**
7440-28-0	**Thallium**	**0.34B**	**0.50**	**0.044**	**mg/L**
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	**Zinc**	**0.62**	**0.50**	**0.068**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	250	03/17/2011 13:47	BNB	452662

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**43900**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041024	**AOCU-GW52-M-MSD**	Water	03/02/2011 14:16	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	2	03/09/2011 11:24	AJW	452102

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00326**	**0.00040**	**0.00016**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/08/2011 16:31	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.03**	**5.00**	**1.10**	**mg/L**
7440-36-0	**Antimony**	**0.62B**	**1.50**	**0.10**	**mg/L**
7440-38-2	**Arsenic**	**0.56**	**0.25**	**0.063**	**mg/L**
7440-39-3	**Barium**	**0.43**	**0.25**	**0.0028**	**mg/L**
7440-41-7	**Beryllium**	**0.45**	**0.13**	**0.0029**	**mg/L**
7440-43-9	**Cadmium**	**0.44**	**0.13**	**0.0028**	**mg/L**
7440-70-2	**Calcium**	**868**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.46**	**0.25**	**0.0086**	**mg/L**
7440-48-4	**Cobalt**	**0.45**	**0.25**	**0.0099**	**mg/L**
7440-50-8	**Copper**	**1.03**	**0.25**	**0.034**	**mg/L**
7439-89-6	**Iron**	**4.56**	**2.50**	**0.94**	**mg/L**
7439-92-1	**Lead**	**0.38**	**0.38**	**0.035**	**mg/L**
7439-95-4	**Magnesium**	**8290**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**1.66**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.63B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**244**	**12.5**	**1.32**	**mg/L**
7782-49-2	**Selenium**	**0.44B**	**1.00**	**0.11**	**mg/L**
7440-22-4	**Silver**	**0.45**	**0.25**	**0.015**	**mg/L**
7440-28-0	**Thallium**	**0.37B**	**0.50**	**0.044**	**mg/L**
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	**Zinc**	**0.59**	**0.50**	**0.068**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	250	03/17/2011 13:55	BNB	452662

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**41900**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041025	**AOCU-GW54-M**	Water	03/02/2011 13:11	03/04/2011 09:10

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451809	SW-846 7470A Dissolved	1	03/07/2011 18:19	BNB	451556

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	100	03/10/2011 21:25	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**46300**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/04/2011 11:35	451808	SW-846 3005 Dissolved	25	03/11/2011 10:00	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	Antimony	0.10U	1.50	0.10	mg/L
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**869**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.069B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.34**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**10700**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**8.38**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.095B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**251**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041026	**AOCU-GW39-M**	Water	03/03/2011 10:16	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:41	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	25	03/10/2011 16:31	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.12B**	**1.50**	**0.10**	**mg/L**
7440-38-2	**Arsenic**	**0.070B**	**0.25**	**0.063**	**mg/L**
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**860**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.072B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.23B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**11600**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**2.24**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.092B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**231**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	250	03/10/2011 21:33	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**48800**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041027	**AOCU-GW43-M**	Water	03/03/2011 09:56	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:46	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	25	03/10/2011 17:06	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.17B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**555**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.063B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.42**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**5900**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**0.48**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.062B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**151**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	**Vanadium**	**0.30B**	**0.50**	**0.020**	**mg/L**
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	250	03/10/2011 21:40	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**48700**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041028	**AOCU-GW45-M**	Water	03/03/2011 08:51	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:48	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 21:47	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**33300**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	20	03/11/2011 09:17	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.16B**	**1.20**	**0.081**	**mg/L**
7440-38-2	Arsenic	0.051U	0.20	0.051	mg/L
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**1920**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.059B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.26**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**8860**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**1.13**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.093B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**195**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103041029	**AOCU-GW41-M**	Water	03/03/2011 09:01	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:49	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 21:54	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**39900**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	20	03/11/2011 09:25	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.087B**	**1.20**	**0.081**	**mg/L**
7440-38-2	**Arsenic**	**0.053B**	**0.20**	**0.051**	**mg/L**
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**1310**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.058B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.24**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**9910**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**1.47**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.11B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**238**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	33.6	67	59 - 134	43.7	87	26	30
107-02-8	Acrolein		2.49U	2.49	250	213	85	33 - 157	253	101	17	30
107-13-1	Acrylonitrile		1.62U	1.62	250	212	85	62 - 124	252	101	17	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	45.7	91	78 - 112	47.2	94	3	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	53.1	106	76 - 116	49.9	100	6	30
75-25-2	Bromoform		0.278U	0.278	50.0	46.6	93	68 - 128	51.3	103	10	30
74-83-9	Bromomethane		0.276U	0.276	50.0	51.3	103	55 - 151	59.1	118	14	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	52.8	106	67 - 147	52.6	105	0.4	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	54.7	109	74 - 139	50.8	102	7	30
75-00-3	Chloroethane		0.279U	0.279	50.0	52.7	105	54 - 166	53.9	108	2	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	101	101	83 - 121	99.4	99	2	30
67-66-3	Chloroform		0.062U	0.062	50.0	49.5	99	85 - 123	48.2	96	3	30
74-87-3	Chloromethane		0.076U	0.076	50.0	51.7	103	55 - 173	53.6	107	4	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	49.3	99	74 - 116	49.5	99	0.4	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	52.1	104	81 - 116	51.8	104	0.6	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	53.9	108	34 - 158	52.5	105	3	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	53.6	107	82 - 127	54.1	108	0.9	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	52.9	106	76 - 122	52.3	105	1	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	52.3	105	81 - 114	51.1	102	2	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	53.7	107	82 - 126	52.6	105	2	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	50.3	101	69 - 125	50.1	100	0.4	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	52.1	104	81 - 120	52.3	105	0.4	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	51.3	103	83 - 119	51.4	103	0.2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	49.3	99	87 - 123	49.8	100	1	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	51.3	103	87 - 118	49.8	100	3	30
97-63-2	Ethyl methacrylate		0.340U	0.340								
591-78-6	2-Hexanone		0.302U	0.302	50.0	33.3	67	58 - 125	43.3	87	26	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	51.2	102	87 - 131	50.1	100	2	30
78-93-3	2-Butanone		0.235U	0.235	50.0	36.9	74	61 - 127	47.4	95	25	30
74-88-4	Methyl iodide		0.097U	0.097	50.0	48.7	97	72 - 125	52.0	104	7	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	39.9	80	62 - 125	49.0	98	20	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.9	104	86 - 125	51.1	102	2	30
100-42-5	Styrene		0.058U	0.058	50.0	48.4	97	78 - 118	49.8	100	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
127-18-4	Tetrachloroethene	0.210U	0.210		50.0	49.8	100	80 - 131	47.6	95	5	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	48.1	96	81 - 119	45.8	92	5	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	44.3	89	71 - 120	50.7	101	13	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	47.6	95	68 - 123	49.2	98	3	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	53.1	106	79 - 133	50.4	101	5	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	46.1	92	80 - 114	48.5	97	5	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	56.7	113	66 - 156	54.9	110	3	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	42.1	84	77 - 115	50.9	102	19	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	51.1	102	82 - 120	50.1	100	2	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	51.1	102	83 - 123	49.7	99	3	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	54.3	109	57 - 153	57.0	114	5	30
95-47-6	o-Xylene	0.077U	0.077		50.0	48.0	96	83 - 121	48.5	97	1	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	37.7	75	61 - 118	48.0	96	24	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	45.0	90	80 - 115	47.0	94	4	30
80-62-6	Methyl methacrylate	0.606U	0.606									
107-12-0	Propionitrile	3.06U	3.06									
108-05-4	Vinyl acetate	0.197U	0.197		50.0	43.2	86	38 - 159	48.3	97	11	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	50.1	100	75 - 116	52.4	105	4	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	52.7	105	83 - 125	51.0	102	3	30
110-54-3	n-Hexane	0.126U	0.126		50.0	59.7	119	71 - 134	56.7	113	5	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429		50.0	44.8	90	51 - 137	53.1	106	17	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	52.4	105	77 - 138	48.8	98	7	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141		50.0	56.5	113	74 - 139	55.8	112	1	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	53.7	107	87 - 127	51.4	103	4	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20		50.0	51.6	103	63 - 125	49.4	99	4	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	49.6	99	81 - 113	50.3	101	1	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	47.7	95	83 - 115	48.6	97	2	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	50.2	100	81 - 121	51.4	103	2	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	49.0	98	84 - 120	49.9	100	2	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	51.9	104	83 - 126	51.0	102	2	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	53.0	106	86 - 127	50.9	102	4	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	48.7	97	86 - 115	48.4	97	0.6	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	47.4	95	87 - 113	49.0	98	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	MB451901			LCS451901			LCSD451901		
Prep Batch N/A		**GCAL ID**	926638			926639			926640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/06/2011 22:11			03/06/2011 20:31			03/06/2011 21:02		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	55.1	110	84 - 124	51.7	103	6	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	48.1	96	85 - 115	50.0	100	4	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	51.8	104	71 - 133	50.6	101	2	30
91-20-3	Naphthalene		0.175U	0.175	50.0	42.4	85	59 - 125	47.6	95	12	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	48.2	96	64 - 126	50.7	101	5	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.1	108	87 - 128	52.1	104	4	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	52.6	105	75 - 133	52.9	106	0.6	20
71-43-2	Benzene		0.049U	0.049	50.0	51.0	102	83 - 124	50.5	101	1	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	50.3	101	85 - 124	49.5	99	2	20
108-88-3	Toluene		0.078U	0.078	50.0	49.0	98	86 - 116	48.0	96	2	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.8	96	87 - 115	47.0	94	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene		47.6	95	50	48.6	97	84 - 120	48	96		
1868-53-7	Dibromofluoromethane		48.1	96	50	51.5	103	87 - 116	51.4	103		
2037-26-5	Toluene d8		48.5	97	50	46.6	93	86 - 112	47.9	96		
17060-07-0	1,2-Dichloroethane-d4		53.7	107	50	52.2	104	76 - 127	52.8	106		

Analytical Batch 451901		**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch N/A		**GCAL ID**	21103041002			21103041004			21103041005		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 22:34			03/06/2011 22:58			03/06/2011 23:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	44.3	89	81 - 119	45.5	91	3	10
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	48.1	96	79 - 133	47.6	95	1	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	64.2	**128***	71 - 120	65.8	**132***	2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	49.8	100	80 - 114	53.1	106	6	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901	**Client ID**	AOCU-GW52	AOCU-GW52-MS	AOCU-GW52-MSD
Prep Batch N/A	**GCAL ID**	21103041002	21103041004	21103041005
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/06/2011 22:34	03/06/2011 22:58	03/06/2011 23:20
	Matrix	Water	Water	Water

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-34-3	1,1-Dichloroethane	0.00	0.064	50.0	54.2	108	82 - 127	54.7	109	0.9	10
75-35-4	1,1-Dichloroethene	0.00	0.183	50.0	49.7	99	75 - 133	50.3	101	1	13
563-58-6	1,1-Dichloropropene	0.00	0.071	50.0	46.1	92	87 - 127	48.1	96	4	10
87-61-6	1,2,3-Trichlorobenzene	0.00	0.107	50.0	45.8	92	64 - 126	52.0	104	13	16
96-18-4	1,2,3-Trichloropropane	0.00	0.063	50.0	97.6	**195***	77 - 115	97.5	**195***	0.1	12
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	45.9	92	68 - 123	49.9	100	8	11
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	46.2	92	82 - 120	47.8	96	3	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	81.9	**164***	61 - 118	86.6	**173***	6	15
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	52.0	104	80 - 115	53.1	106	2	10
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	46.4	93	85 - 115	48.7	97	5	9
107-06-2	1,2-Dichloroethane	0.00	0.121	50.0	52.6	105	76 - 122	52.9	106	0.6	11
78-87-5	1,2-Dichloropropane	0.00	0.114	50.0	53.8	108	81 - 120	54.3	109	0.9	11
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	46.1	92	83 - 123	46.7	93	1	10
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	44.9	90	86 - 115	46.4	93	3	9
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	52.0	104	81 - 113	54.9	110	5	11
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	44.2	88	87 - 113	46.2	92	4	10
544-10-5	1-Chlorohexane	0.00	0.139	50.0	37.7	**75***	87 - 128	40.1	**80***	6	10
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	47.4	95	77 - 138	46.7	93	1	12
78-93-3	2-Butanone	0.00	0.235	50.0	85.7	**171***	61 - 127	87.7	**175***	2	13
110-75-8	2-Chloroethylvinyl ether	0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	45.6	91	81 - 121	46.7	93	2	10
591-78-6	2-Hexanone	0.00	0.302	50.0	92.8	**186***	58 - 125	96.9	**194***	4	14
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	46.7	93	84 - 120	47.3	95	1	10
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	46.0	92	83 - 125	49.1	98	7	9
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	83.6	**167***	62 - 125	86.8	**174***	4	13
67-64-1	Acetone	0.00	0.322	50.0	62.4	125	59 - 134	62.2	124	0.3	14
107-02-8	Acrolein	0.00	2.49	250	344	138	33 - 157	321	128	7	21
107-13-1	Acrylonitrile	0.00	1.62	250	349	**140***	62 - 124	345	**138***	1	13
71-43-2	Benzene	0.00	0.049	50.0	49.0	98	83 - 124	49.8	100	2	11
108-86-1	Bromobenzene	0.00	0.095	50.0	46.9	94	83 - 115	49.2	98	5	10
74-97-5	Bromochloromethane	0.00	0.238	50.0	44.0	88	78 - 112	47.8	96	8	10
75-27-4	Bromodichloromethane	0.00	0.071	50.0	48.9	98	76 - 116	50.9	102	4	10
75-25-2	Bromoform	0.00	0.278	50.0	54.0	108	68 - 128	55.8	112	3	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch N/A		**GCAL ID**	21103041002			21103041004			21103041005		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 22:34			03/06/2011 22:58			03/06/2011 23:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	ug/L								
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
74-83-9	Bromomethane	0.00	0.276	50.0	47.6	95	55 - 151	51.2	102	7	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	47.4	95	67 - 147	49.4	99	4	12
56-23-5	Carbon tetrachloride	0.00	0.056	50.0	48.1	96	74 - 139	49.7	99	3	13
108-90-7	Chlorobenzene	0.00	0.055	50.0	42.2	**84***	87 - 115	44.7	89	6	9
75-00-3	Chloroethane	0.00	0.279	50.0	17.4	**35***	54 - 166	17.1	**34***	2	20
67-66-3	Chloroform	0.00	0.062	50.0	47.2	94	85 - 123	46.4	93	2	10
74-87-3	Chloromethane	0.00	0.076	50.0	48.8	98	55 - 173	56.2	112	14	22
124-48-1	Dibromochloromethane	0.00	0.133	50.0	50.1	100	74 - 116	52.7	105	5	11
74-95-3	Dibromomethane	0.00	0.197	50.0	51.4	103	81 - 116	53.6	107	4	10
75-71-8	Dichlorodifluoromethane	0.00	0.088	50.0	50.3	101	34 - 158	49.9	100	0.8	22
100-41-4	Ethylbenzene	0.00	0.180	50.0	43.2	**86***	87 - 118	45.7	91	6	10
87-68-3	Hexachlorobutadiene	0.00	0.347	50.0	53.1	106	71 - 133	56.5	113	6	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.058	50.0	42.0	**84***	87 - 131	44.1	88	5	10
74-88-4	Methyl iodide	0.00	0.097	50.0	42.3	85	72 - 125	48.9	98	**14***	11
75-09-2	Methylene chloride	0.00	0.102	50.0	48.9	98	69 - 125	49.4	99	1	11
91-20-3	Naphthalene	0.00	0.175	50.0	48.4	97	59 - 125	58.5	117	**19***	15
100-42-5	Styrene	0.00	0.058	50.0	44.3	89	78 - 118	45.7	91	3	11
127-18-4	Tetrachloroethene	0.00	0.210	50.0	42.3	85	80 - 131	43.7	87	3	12
108-88-3	Toluene	0.00	0.078	50.0	45.9	92	86 - 116	46.5	93	1	10
79-01-6	Trichloroethene	0.00	0.094	50.0	45.6	91	85 - 124	46.6	93	2	10
75-69-4	Trichlorofluoromethane	0.00	0.094	50.0	49.7	99	66 - 156	51.4	103	3	15
76-13-1	Trichlorotrifluoroethane	0.00	0.141	50.0	48.3	97	74 - 139	48.6	97	0.6	13
108-05-4	Vinyl acetate	0.00	0.197	50.0	57.7	115	38 - 159	57.1	114	1	11
75-01-4	Vinyl chloride	0.00	0.104	50.0	52.7	105	57 - 153	55.6	111	5	22
156-59-2	cis-1,2-Dichloroethene	0.00	0.104	50.0	51.0	102	81 - 114	51.4	103	0.8	10
10061-01-5	cis-1,3-Dichloropropene	0.00	0.105	50.0	49.2	98	83 - 119	51.1	102	4	10
136777-61-2	m,p-Xylene	0.00	0.099	100	84.1	84	83 - 121	89.0	89	6	10
104-51-8	n-Butylbenzene	0.00	0.068	50.0	50.0	100	84 - 124	53.6	107	7	10
110-54-3	n-Hexane	0.00	0.126	50.0	44.4	89	71 - 134	43.8	88	1	11
103-65-1	n-Propylbenzene	0.00	0.069	50.0	45.7	91	86 - 125	47.9	96	5	10
95-47-6	o-Xylene	0.00	0.077	50.0	42.7	85	83 - 121	45.2	90	6	10
135-98-8	sec-Butylbenzene	0.00	0.088	50.0	47.3	95	86 - 127	49.5	99	5	10
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.084	50.0	52.8	106	75 - 116	54.6	109	3	10

GC/MS Volatiles Quality Control Summary

Analytical Batch 451901		**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch N/A		**GCAL ID**	21103041002			21103041004			21103041005		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/06/2011 22:34			03/06/2011 22:58			03/06/2011 23:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	47.3	95	83 - 126	47.5	95	0.4	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	51.2	102	82 - 126	51.2	102	0	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	50.2	100	87 - 123	53.1	106	6	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.429	50.0	165	**330***	51 - 137	158	**316***	4	24
Surrogate												
460-00-4	4-Bromofluorobenzene		43.2	86	50	47.8	96	84 - 120	47.9	96		
1868-53-7	Dibromofluoromethane		49.8	100	50	51.5	103	87 - 116	51.2	102		
2037-26-5	Toluene d8		50.6	101	50	50.5	101	86 - 112	49.9	100		
17060-07-0	1,2-Dichloroethane-d4		53.6	107	50	55.4	111	76 - 127	52.6	105		

Analytical Batch 451920		**Client ID**	MB451920			LCS451920			LCSD451920		
Prep Batch N/A		**GCAL ID**	926762			926763			926764		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	56.0	112	59 - 134	54.6	109	3	30
107-02-8	Acrolein		2.49U	2.49	250	360	144	33 - 157	365	146	1	30
107-13-1	Acrylonitrile		1.62U	1.62	250	462	**185***	62 - 124	491	**196***	6	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	42.2	84	78 - 112	43.3	87	3	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	45.7	91	76 - 116	45.3	91	0.9	30
75-25-2	Bromoform		0.278U	0.278	50.0	49.4	99	68 - 128	50.2	100	2	30
74-83-9	Bromomethane		0.276U	0.276	50.0	53.9	108	55 - 151	53.6	107	0.6	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	51.0	102	67 - 147	49.5	99	3	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	51.5	103	74 - 139	48.4	97	6	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.2	102	54 - 166	51.8	104	1	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	99.1	99	83 - 121	94.5	95	5	30
67-66-3	Chloroform		0.062U	0.062	50.0	45.4	91	85 - 123	44.4	89	2	30
74-87-3	Chloromethane		0.076U	0.076	50.0	50.5	101	55 - 173	50.9	102	0.8	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	48.7	97	74 - 116	47.7	95	2	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	48.0	96	81 - 116	48.6	97	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920		**Client ID**	MB451920			LCS451920			LCSD451920		
Prep Batch N/A		**GCAL ID**	926762			926763			926764		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	52.2	104	34 - 158	49.4	99	6	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	50.4	101	82 - 127	48.8	98	3	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	49.2	98	76 - 122	47.9	96	3	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	49.4	99	81 - 114	46.7	93	6	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	50.9	102	82 - 126	49.7	99	2	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	48.8	98	69 - 125	46.7	93	4	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	47.8	96	81 - 120	47.3	95	1	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	47.2	94	83 - 119	44.9	90	5	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	47.8	96	87 - 123	47.9	96	0.2	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	48.4	97	87 - 118	48.2	96	0.4	30
97-63-2	Ethyl methacrylate		0.340U	0.340								
591-78-6	2-Hexanone		0.302U	0.302	50.0	47.2	94	58 - 125	49.2	98	4	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	51.6	103	87 - 131	47.7	95	8	30
78-93-3	2-Butanone		0.235U	0.235	50.0	50.3	101	61 - 127	52.4	105	4	30
74-88-4	Methyl iodide		0.097U	0.097	50.0	43.2	86	72 - 125	43.2	86	0	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	45.8	92	62 - 125	48.7	97	6	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	51.3	103	86 - 125	51.0	102	0.6	30
100-42-5	Styrene		0.058U	0.058	50.0	48.2	96	78 - 118	47.5	95	1	30
127-18-4	Tetrachloroethene		0.210U	0.210	50.0	47.6	95	80 - 131	46.4	93	3	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	44.9	90	81 - 119	44.4	89	1	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	47.1	94	71 - 120	48.8	98	4	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	49.8	100	68 - 123	50.7	101	2	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	49.7	99	79 - 133	46.8	94	6	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	46.9	94	80 - 114	46.0	92	2	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	55.7	111	66 - 156	53.3	107	4	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	47.8	96	77 - 115	49.1	98	3	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	49.9	100	82 - 120	48.9	98	2	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	49.0	98	83 - 123	48.7	97	0.6	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	53.0	106	57 - 153	51.4	103	3	30
95-47-6	o-Xylene		0.077U	0.077	50.0	48.6	97	83 - 121	46.0	92	5	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	44.1	88	61 - 118	47.0	94	6	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	44.8	90	80 - 115	46.7	93	4	30
80-62-6	Methyl methacrylate		0.606U	0.606								

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920		**Client ID**	MB451920			LCS451920			LCSD451920		
Prep Batch N/A		**GCAL ID**	926762			926763			926764		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
107-12-0	Propionitrile		3.06U	3.06								
108-05-4	Vinyl acetate		0.197U	0.197	50.0	55.7	111	38 - 159	55.4	111	0.5	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	48.1	96	75 - 116	50.0	100	4	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	52.8	106	83 - 125	50.6	101	4	30
110-54-3	n-Hexane		0.126U	0.126	50.0	60.0	120	71 - 134	60.5	121	0.8	30
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429	50.0	49.1	98	51 - 137	50.8	102	3	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	47.8	96	77 - 138	45.1	90	6	30
76-13-1	Trichlorotrifluoroethane		0.141U	0.141	50.0	57.9	116	74 - 139	54.4	109	6	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	49.5	99	87 - 127	49.0	98	1	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20	50.0	49.2	98	63 - 125	50.4	101	2	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	48.4	97	81 - 113	48.4	97	0	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	44.6	89	83 - 115	47.0	94	5	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	49.3	99	81 - 121	48.7	97	1	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	49.0	98	84 - 120	48.6	97	0.8	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	51.9	104	83 - 126	51.3	103	1	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	53.2	106	86 - 127	50.5	101	5	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	45.7	91	86 - 115	46.0	92	0.7	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	48.1	96	87 - 113	46.4	93	4	30
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	57.2	114	84 - 124	53.4	107	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	48.7	97	85 - 115	46.5	93	5	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	58.3	117	71 - 133	53.2	106	9	30
91-20-3	Naphthalene		0.175U	0.175	50.0	46.2	92	59 - 125	48.9	98	6	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	49.5	99	64 - 126	51.0	102	3	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.4	109	87 - 128	52.3	105	4	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	52.0	104	75 - 133	50.8	102	2	20
71-43-2	Benzene		0.049U	0.049	50.0	48.1	96	83 - 124	47.4	95	1	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	47.9	96	85 - 124	46.6	93	3	20
108-88-3	Toluene		0.078U	0.078	50.0	47.1	94	86 - 116	45.7	91	3	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	45.2	90	87 - 115	45.4	91	0.4	20

GC/MS Volatiles Quality Control Summary

Analytical Batch	451920	**Client ID**	MB451920			LCS451920			LCSD451920			
Prep Batch	N/A	**GCAL ID**	926762			926763			926764			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50			
		Matrix	Water			Water			Water			
SW-846 8260B Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
Surrogate												
460-00-4	4-Bromofluorobenzene		46	92	50	49.9	100	84 - 120	49.2	98		
1868-53-7	Dibromofluoromethane		48.5	97	50	50.4	101	87 - 116	50.8	102		
2037-26-5	Toluene d8		48.4	97	50	48.9	98	86 - 112	49.2	98		
17060-07-0	1,2-Dichloroethane-d4		50.9	102	50	52.3	105	76 - 127	52.9	106		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452046	**Client ID**	MB451817			LCS451817			LCSD451817		
Prep Batch	451817	**GCAL ID**	926334			926335			926336		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/07/2011 07:05			03/07/2011 07:05			03/07/2011 07:05		
		Analytical Date	03/08/2011 11:34			03/08/2011 11:49			03/08/2011 12:04		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L		**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.303U	0.303								
120-12-7	Anthracene	0.316U	0.316								
56-55-3	Benzo(a)anthracene	0.316U	0.316								
92-87-5	Benzidine	3.92U	3.92								
205-99-2	Benzo(b)fluoranthene	0.217U	0.217								
207-08-9	Benzo(k)fluoranthene	0.236U	0.236								
191-24-2	Benzo(g,h,i)perylene	0.215U	0.215								
50-32-8	Benzo(a)pyrene	0.125U	0.125								
65-85-0	Benzoic acid	0.910U	0.910								
85-68-7	Butyl benzyl phthalate	0.165U	0.165								
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	0.290								
111-44-4	Bis(2-Chloroethyl)ether	0.288U	0.288								
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	0.191								
101-55-3	4-Bromophenyl phenyl ether	0.337U	0.337								
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	0.268								
218-01-9	Chrysene	0.433U	0.433								
53-70-3	Dibenz(a,h)anthracene	0.217U	0.217								
132-64-9	Dibenzofuran	0.227U	0.227								
95-50-1	1,2-Dichlorobenzene	0.259U	0.259								
541-73-1	1,3-Dichlorobenzene	0.274U	0.274								
91-94-1	3,3'-Dichlorobenzidine	0.297U	0.297								
120-83-2	2,4-Dichlorophenol	0.217U	0.217								
84-66-2	Diethyl phthalate	0.303U	0.303								
105-67-9	2,4-Dimethylphenol	0.694U	0.694								
131-11-3	Dimethyl phthalate	0.255U	0.255								
117-84-0	Di-n-octyl phthalate	0.167U	0.167								
51-28-5	2,4-Dinitrophenol	2.60U	2.60								
606-20-2	2,6-Dinitrotoluene	0.352U	0.352								
206-44-0	Fluoranthene	0.267U	0.267								
86-73-7	Fluorene	0.288U	0.288								
118-74-1	Hexachlorobenzene	0.249U	0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452046	**Client ID**	MB451817			LCS451817			LCSD451817		
Prep Batch	451817	**GCAL ID**	926334			926335			926336		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/07/2011 07:05			03/07/2011 07:05			03/07/2011 07:05		
		Analytical Date	03/08/2011 11:34			03/08/2011 11:49			03/08/2011 12:04		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192									
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174									
67-72-1	Hexachloroethane	0.299U	0.299									
78-59-1	Isophorone	0.380U	0.380									
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157									
91-57-6	2-Methylnaphthalene	0.255U	0.255									
95-48-7	o-Cresol	0.329U	0.329									
91-20-3	Naphthalene	0.293U	0.293									
98-95-3	Nitrobenzene	0.329U	0.329									
88-75-5	2-Nitrophenol	0.357U	0.357									
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364									
85-01-8	Phenanthrene	0.304U	0.304									
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317									
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275									
100-51-6	Benzyl alcohol	0.355U	0.355									
99-09-2	3-Nitroaniline	0.226U	0.226									
100-01-6	4-Nitroaniline	0.221U	0.221									
84-74-2	Di-n-butyl phthalate	0.189U	0.189									
88-74-4	2-Nitroaniline	0.198U	0.198									
91-58-7	2-Chloronaphthalene	0.221U	0.221									
106-47-8	4-Chloroaniline	0.463U	0.463									
1319-77-3MP	m,p-Cresol	0.352U	0.352									
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98									
108-95-2	Phenol	0.150U	0.150		100	31.5	32	13 - 54	29.1	29	8	30
95-57-8	2-Chlorophenol	0.276U	0.276		100	81.8	82	44 - 103	79.2	79	3	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255		100	79.9	80	40 - 100	80.5	81	0.7	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304		100	92.2	92	51 - 104	91.4	91	0.9	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234		100	81.2	81	45 - 104	82.3	82	1	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234		100	88.4	88	53 - 105	91.1	91	3	30
83-32-9	Acenaphthene	0.268U	0.268		100	90.2	90	58 - 106	88.7	89	2	30
100-02-7	4-Nitrophenol	1.83U	1.83		100	30.1	30	13 - 55	27.2	27	10	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263		100	95.6	96	60 - 109	99.2	99	4	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452046	**Client ID**	MB451817			LCS451817			LCSD451817		
Prep Batch	451817	**GCAL ID**	926334			926335			926336		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/07/2011 07:05			03/07/2011 07:05			03/07/2011 07:05		
		Analytical Date	03/08/2011 11:34			03/08/2011 11:49			03/08/2011 12:04		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	65.7	66	57 - 118	68.7	69	4	30
129-00-0	Pyrene	0.486U	0.486	100	93.2	93	60 - 113	80.0	80	15	30
Surrogate											
4165-60-0	Nitrobenzene-d5	43.9	88	50	47.4	95	52 - 120	46.4	93		
321-60-8	2-Fluorobiphenyl	40.8	82	50	46.4	93	16 - 128	43.6	87		
1718-51-0	Terphenyl-d14	46.3	93	50	54.3	109	43 - 138	49.5	99		
4165-62-2	Phenol-d5	29.5	30	100	34.3	34	10 - 120	31.9	32		
367-12-4	2-Fluorophenol	49.4	49	100	53.8	54	10 - 120	52.8	53		
118-79-6	2,4,6-Tribromophenol	93.6	94	100	105	105	20 - 120	103	103		

Analytical Batch	452046	**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch	451817	**GCAL ID**	21103041002			21103041004			21103041005		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/07/2011 07:05			03/07/2011 07:05			03/07/2011 07:05		
		Analytical Date	03/08/2011 12:49			03/08/2011 13:04			03/08/2011 13:19		
		Matrix	Water			Water			Water		
SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.234	100	67.2	67	45 - 104	63.0	63	6	28
106-46-7	1,4-Dichlorobenzene	0.00	0.255	100	65.4	65	40 - 100	61.3	61	6	28
121-14-2	2,4-Dinitrotoluene	0.00	0.263	100	90.5	91	60 - 109	81.6	82	10	20
95-57-8	2-Chlorophenol	0.00	0.276	100	81.4	81	44 - 103	72.7	73	11	29
59-50-7	4-Chloro-3-methylphenol	0.00	0.234	100	86.9	87	53 - 105	79.4	79	9	24
100-02-7	4-Nitrophenol	0.00	1.83	100	37.5	38	13 - 55	32.4	32	15	31
83-32-9	Acenaphthene	0.00	0.268	100	81.3	81	58 - 106	76.0	76	7	21
87-86-5	Pentachlorophenol	0.00	0.168	100	68.9	69	57 - 118	62.2	62	10	26
108-95-2	Phenol	0.00	0.150	100	51.3	51	13 - 54	45.7	46	12	34
129-00-0	Pyrene	0.00	0.486	100	87.2	87	60 - 113	78.8	79	10	20
621-64-7	n-Nitrosodi-n-propylamine	0.00	0.304	100	85.5	86	51 - 104	77.9	78	9	28
Surrogate											
4165-60-0	Nitrobenzene-d5	48.3	97	50	43.6	87	52 - 120	39.2	78		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch 452046	**Client ID**	AOCU-GW52	AOCU-GW52-MS	AOCU-GW52-MSD
Prep Batch 451817	**GCAL ID**	21103041002	21103041004	21103041005
Prep Method 3510C	**Sample Type**	SAMPLE	MS	MSD
	Prep Date	03/07/2011 07:05	03/07/2011 07:05	03/07/2011 07:05
	Analytical Date	03/08/2011 12:49	03/08/2011 13:04	03/08/2011 13:19
	Matrix	Water	Water	Water

SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
321-60-8	2-Fluorobiphenyl	43.3	87	50	37.2	74	16 - 128	35.5	71		
1718-51-0	Terphenyl-d14	32.4	65	50	41.1	82	43 - 138	42.6	85		
4165-62-2	Phenol-d5	59.6	60	100	55.3	55	10 - 120	49.4	49		
367-12-4	2-Fluorophenol	71.2	71	100	66.9	67	10 - 120	58.6	59		
118-79-6	2,4,6-Tribromophenol	108	108	100	95.6	96	20 - 120	84.7	85		

General Chromatography Quality Control Summary

Analytical Batch	452004	**Client ID**	MB451820			LCS451820			LCSD451820		
Prep Batch	451820	**GCAL ID**	926353			926354			926355		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/05/2011 11:37			03/05/2011 11:37			03/05/2011 11:37		
		Analytical Date	03/07/2011 09:56			03/07/2011 10:14			03/07/2011 10:31		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics	44.2U	44.2	1000	894	89	50 - 150	1020	102	13	40
Surrogate											
84-15-1	o-Terphenyl	46.1	92	50	48.4	97	57 - 115	47.4	95		

Analytical Batch	452004	**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch	451820	**GCAL ID**	21103041002			21103041004			21103041005		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/05/2011 11:37			03/05/2011 11:37			03/05/2011 11:37		
		Analytical Date	03/07/2011 11:43			03/07/2011 12:00			03/07/2011 12:18		
		Matrix	Water			Water			Water		
Total Hydrocarbons Diesel Wate		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics	36.1	44.2	1000	885	85	50 - 150	937	90	6	30
Surrogate											
84-15-1	o-Terphenyl	46.9	94	50	43.4	87	57 - 115	46.3	93		

General Chromatography Quality Control Summary

Analytical Batch 452167		**Client ID**	MB452167		LCS452167		
Prep Batch N/A		**GCAL ID**	927969		927970		
		Sample Type	Method Blank		LCS		
		Analytical Date	03/10/2011 13:34		03/10/2011 13:00		
		Matrix	Water		Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	492	98	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	25.9	86	30	30.2	101	49 - 136

Analytical Batch 452167		**Client ID**	AOCU-GW52		AOCU-GW52-MS			AOCU-GW52-MSD				
Prep Batch N/A		**GCAL ID**	21103041002		21103041004			21103041005				
		Sample Type	SAMPLE		MS			MSD				
		Analytical Date	03/10/2011 15:18		03/10/2011 15:42			03/10/2011 16:06				
		Matrix	Water		Water			Water				
SW-846 8015B Modified Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
8006-61-9	Gasoline Range Organics	0.00	13.0	500	387	77	67 - 171	352	70	9		31
Surrogate												
106-39-8	Bromochlorobenzene	25.8	86	30	28.3	94	49 - 136	28	93			

General Chromatography Quality Control Summary

Analytical Batch	452005	**Client ID**	MB451823			LCS451823			LCSD451823		
Prep Batch	451823	**GCAL ID**	926364			926365			926366		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/05/2011 11:37			03/05/2011 11:37			03/05/2011 11:37		
		Analytical Date	03/07/2011 09:56			03/07/2011 10:49			03/07/2011 11:07		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1410	70	50 - 150	1480	74	5	40
Surrogate												
84-15-1	o-Terphenyl		43.3	87	50	41.3	83	57 - 115	42.6	85		

Analytical Batch	452005	**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD		
Prep Batch	451823	**GCAL ID**	21103041002			21103041004			21103041005		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/05/2011 11:37			03/05/2011 11:37			03/05/2011 11:37		
		Analytical Date	03/07/2011 11:43			03/07/2011 12:36			03/07/2011 13:30		
		Matrix	Water			Water			Water		
Total Hydrocarbons Oil Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		31.4	45.7	2000	1500	74	50 - 150	1510	74	0.6	30
Surrogate												
84-15-1	o-Terphenyl		44	88	50	43.7	87	57 - 115	42.9	86		

Inorganics Quality Control Summary

Analytical Batch	451556	**Client ID**	MB451809			LCS451809		
Prep Batch	451809	**GCAL ID**	926308			926309		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	7470A	**Prep Date**	03/04/2011 11:35			03/04/2011 11:35		
		Analytical Date	03/07/2011 17:51			03/07/2011 17:52		
		Matrix	Water			Water		
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury		0.000081U	0.000081	0.00500	0.00551	110	88 - 111

Analytical Batch	452102	**Client ID**	AOCU-GW52-M			AOCU-GW52-M-MS			AOCU-GW52-M-MSD			
Prep Batch	451809	**GCAL ID**	21103041022			21103041023			21103041024			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	03/04/2011 11:35			03/04/2011 11:35			03/04/2011 11:35			
	Dissolved	**Analytical Date**	03/09/2011 11:21			03/09/2011 11:23			03/09/2011 11:24			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.00016	0.00500	0.00316	**63***	75 - 125	0.00326	**65***	3	10

Analytical Batch	452103	**Client ID**	AOCU-GW26-M			AOCU-GW26-M-MS			AOCU-GW26-M-MSD			
Prep Batch	451925	**GCAL ID**	21103050420			21103050421			21103050422			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	7470A	**Prep Date**	03/07/2011 11:00			03/07/2011 11:00			03/07/2011 11:00			
	Dissolved	**Analytical Date**	03/09/2011 14:49			03/09/2011 14:51			03/09/2011 14:53			
		Matrix	Water			Water			Water			
SW-846 7470A Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury		0.00000	0.00016	0.00500	0.00331	**66***	75 - 125	0.00331	**66***	0	10

Inorganics Quality Control Summary

Analytical Batch	452210	**Client ID**	MB451925	LCS451925
Prep Batch	451925	**GCAL ID**	926780	926781
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/09/2011 13:32	03/10/2011 14:18
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00514	103	88 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB451808	LCS451808
Prep Batch	451808	**GCAL ID**	926306	926307
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/08/2011 15:54	03/08/2011 16:02
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.63	93	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	97	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.50	101	88 - 109
7440-39-3	Barium	0.00074B	0.00011	0.50	0.47	94	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.47	93	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.042B	0.026	5.00	4.73	95	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.47	94	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.48	95	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.46	92	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.74	95	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.50	99	89 - 109
7439-95-4	Magnesium	0.033B	0.014	5.00	4.72	94	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.47	94	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.48	96	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.35	94	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.50	100	90 - 110
7440-22-4	Silver	0.00089B	0.00060	0.50	0.49	98	86 - 120
7440-23-5	Sodium	0.051U	0.051	20.0	21.2	106	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.49	98	88 - 108
7440-62-2	Vanadium	0.0011B	0.00082	0.50	0.47	93	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.48	95	84 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-GW52-M	AOCU-GW52-M-MS	AOCU-GW52-M-MSD
Prep Batch	451808	**GCAL ID**	21103041022	21103041023	21103041024
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/08/2011 16:17	03/08/2011 16:24	03/08/2011 16:31
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.23	1.10	5.00	4.41	84	83 - 119	5.03	96	13	25
7440-36-0	Antimony	0.083	0.10	0.50	0.60	103	81 - 124	0.62	108	4	25
7440-38-2	Arsenic	0.024	0.063	0.50	0.53	101	84 - 124	0.56	107	5	25
7440-39-3	Barium	0.0	0.0028	0.50	0.43	86	85 - 120	0.43	86	0.6	25
7440-41-7	Beryllium	0.00046	0.0029	0.50	0.45	91	79 - 121	0.45	91	0.2	25
7440-43-9	Cadmium	0.0	0.0028	0.50	0.43	85	82 - 119	0.44	87	2	25
7440-70-2	Calcium	805	0.64	5.00	793	**-200***	48 - 153	868	**1260***	9	25
7440-47-3	Chromium	0.033	0.0086	0.50	0.47	88	73 - 135	0.46	86	2	25
7440-48-4	Cobalt	0.0	0.0099	0.50	0.44	89	82 - 119	0.45	90	1	25
7440-50-8	Copper	0.15	0.034	0.50	1.06	**182***	82 - 129	1.03	**177***	2	25
7439-89-6	Iron	0.0	0.94	5.00	4.22	84	52 - 155	4.56	91	8	25
7439-92-1	Lead	0.0	0.035	0.50	0.36	71	62 - 146	0.38	76	6	25
7439-95-4	Magnesium	7740	0.36	5.00	7630	**-2000***	62 - 146	8290	**11100***	8	25
7439-96-5	Manganese	1.28	0.031	0.50	1.76	97	79 - 121	1.66	**76***	6	25
7440-02-0	Nickel	0.050	0.024	0.50	0.62	114	84 - 120	0.63	116	2	25
7440-09-7	Potassium	213	1.32	10.0	217	**40***	76 - 132	244	**305***	11	25
7782-49-2	Selenium	0.0	0.11	0.50	0.42	83	71 - 140	0.44	88	6	25
7440-22-4	Silver	0.0	0.015	0.50	0.46	92	75 - 141	0.45	91	2	25
7440-28-0	Thallium	0.0	0.044	0.50	0.34	**68***	90 - 116	0.37	**74***	8	25
7440-62-2	Vanadium	0.0	0.020	0.50	0.0	**0***	85 - 120	0.0	**0***	0	25
7440-66-6	Zinc	0.0	0.068	0.50	0.62	124	60 - 137	0.59	119	4	25

Analytical Batch	452215	**Client ID**	MB451923	LCS451923
Prep Batch	451923	**GCAL ID**	926773	926774
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:41	03/10/2011 15:48
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.89	98	87 - 111

Inorganics Quality Control Summary

Analytical Batch	452215	**Client ID**	MB451923	LCS451923
Prep Batch	451923	**GCAL ID**	926773	926774
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:41	03/10/2011 15:48
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	96	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.49	98	88 - 109
7440-39-3	Barium	0.0013B	0.00011	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.48	96	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.048B	0.026	5.00	4.88	98	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.48	96	90 - 113
7440-48-4	Cobalt	0.00043B	0.00040	0.50	0.50	99	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.47	94	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.81	96	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.50	100	89 - 109
7439-95-4	Magnesium	0.024B	0.014	5.00	4.93	99	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.49	97	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.49	98	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.84	98	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.51	101	90 - 110
7440-22-4	Silver	0.00060U	0.00060	0.50	0.48	96	86 - 120
7440-23-5	Sodium	0.051U	0.051	20.0	19.2	96	90 - 117
7440-28-0	Thallium	0.0022B	0.0018	0.50	0.48	97	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.48	95	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.48	96	84 - 111

Analytical Batch	452215	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:55	03/10/2011 16:02	03/10/2011 16:09
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.44	5.00	5.05	101	83 - 119	4.54	91	11	25

Inorganics Quality Control Summary

Analytical Batch	452215	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:55	03/10/2011 16:02	03/10/2011 16:09
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-36-0	Antimony	0.053	0.040	0.50	0.57	103	81 - 124	0.58	106	2	25
7440-38-2	Arsenic	0.052	0.025	0.50	0.59	108	84 - 124	0.58	105	2	25
7440-39-3	Barium	0.0	0.0011	0.50	0.46	93	85 - 120	0.45	91	2	25
7440-41-7	Beryllium	0.0011	0.0011	0.50	0.49	98	79 - 121	0.47	94	4	25
7440-43-9	Cadmium	0.0	0.0011	0.50	0.46	92	82 - 119	0.45	90	3	25
7440-70-2	Calcium	994	0.26	5.00	1010	**411***	48 - 153	993	**-20***	2	25
7440-47-3	Chromium	0.023	0.0034	0.50	0.49	94	73 - 135	0.47	90	4	25
7440-48-4	Cobalt	0.0	0.0040	0.50	0.48	95	82 - 119	0.46	92	4	25
7440-50-8	Copper	0.029	0.014	0.50	0.56	105	82 - 129	0.54	102	3	25
7439-89-6	Iron	0.089	0.38	5.00	4.92	97	52 - 155	4.76	93	3	25
7439-92-1	Lead	0.0	0.014	0.50	0.38	76	62 - 146	0.36	72	5	25
7439-95-4	Magnesium	6120	0.14	5.00	6260	**2680***	62 - 146	6130	**240***	2	25
7439-96-5	Manganese	1.02	0.012	0.50	1.52	101	79 - 121	1.46	88	4	25
7440-02-0	Nickel	0.047	0.0096	0.50	0.51	92	84 - 120	0.49	89	3	25
7440-09-7	Potassium	164	0.53	10.0	176	116	76 - 132	171	**67***	3	25
7782-49-2	Selenium	0.010	0.043	0.50	0.54	106	71 - 140	0.50	97	8	25
7440-22-4	Silver	0.0	0.0060	0.50	0.47	95	75 - 141	0.46	91	4	25
7440-28-0	Thallium	0.0	0.018	0.50	0.40	**79***	90 - 116	0.40	**79***	0.01	25
7440-62-2	Vanadium	0.0	0.0082	0.50	0.26	**51***	85 - 120	0.25	**50***	3	25
7440-66-6	Zinc	0.0	0.027	0.50	0.31	62	60 - 137	0.31	62	0.05	25

Analytical Batch	452253	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 19:39	03/10/2011 19:46	03/10/2011 19:53
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	27400	5.14	20.0	27600	**972***	70 - 203	27200	**-1000***	2	25

Inorganics Quality Control Summary

Analytical Batch	452662	**Client ID**	AOCU-GW52-M	AOCU-GW52-M-MS	AOCU-GW52-M-MSD
Prep Batch	451808	**GCAL ID**	21103041022	21103041023	21103041024
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/04/2011 11:35	03/04/2011 11:35	03/04/2011 11:35
		Analytical Date	03/17/2011 13:40	03/17/2011 13:47	03/17/2011 13:55
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	42300	12.9	20.0	43900	**8030***	70 - 203	41900	**-2000***	5	25

General Chemistry Quality Control Summary

Analytical Batch 451833	**Client ID**	MB451833			LCS451833		
Prep Batch N/A	**GCAL ID**	926389			926390		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/04/2011 13:40			03/04/2011 13:40		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	1040	104	90 - 110

Analytical Batch 451833	**Client ID**	AOCU-GW52		AOCU-GW52-DUP		
Prep Batch N/A	**GCAL ID**	21103041002		21103041006		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/04/2011 13:40		03/04/2011 13:40		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	166000	500	165000	0.6	5

General Chemistry Quality Control Summary

Analytical Batch 451807	**Client ID**	MB451807			LCS451807		
Prep Batch N/A	**GCAL ID**	926304			926305		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/04/2011 11:29			03/04/2011 11:30		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.461	92	89.5 -110.5

Analytical Batch 451807	**Client ID**	AOCU-GW52			AOCU-GW52-MS			AOCU-GW52-MSD			
Prep Batch N/A	**GCAL ID**	21103041002			21103041004			21103041005			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/04/2011 11:35			03/04/2011 11:37			03/04/2011 11:38			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	0.110	0.003	0.500	0.608	100	89.5 -110.5	0.596	97	2	25

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030311-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW54	AOCU-GW54	02032011	1310	-	N	1	WG	10	X	X	X	X		X	X	1			1
AOCU-GW52	AOCU-GW52	02032011	1415	-	N	1	WG	10	X	X	X	X		X	X	2			1
Trip Blank		02032011	1310	-	TB	1	WQ	3	X							3	HA 028505		1
				-															
				-															
				-															
				-															
				-															
				-															
				-															
				-															

Sample Analysis Requested (5)

Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/3/11	1400	1.		
2. Fdx	3-4-11	910	2. [signature]	3-4-11	910
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.: 47

Method of Shipment: FedEx Express

Airbill Number: 796825823770

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030311-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW52-MS	AOCU-GW52-MS	02032011	1415	-	MS	1	WG	10	X	X	X	X		X	X							4		2
AOCU-GW52-MSD	AOCU-GW52-MSD	02032011	1415	-	SD	1	WG	10	X	X	X	X		X	X							5 6		2
Trip Blank		020320H	1415	-	TB	1	WQ	3	X												7	HH-0285050		2
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/3/11	1400	1.		
2. [illegible]	3-4-11	910	2. [illegible]	3-4-11	910
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.5

Airbill Number: 7968 2581 4293

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030311-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW47	AOCU-GW47	02032011	1430	-	N	1	WQ	10	X	X	X	X		X	X							8			3
AOCU-GW47-A	AOCU-GW47-A	02032011	1430	-	FD	1	WQ	10	X	X	X	X		X	X							9			3
Trip Blank	~~AOCU~~ TH-m	02032011	1430	-	TB	1	WQ	3	X													10	HA-0285050		3
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3-4-11	910	[signature]	3-4-11	910
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.: 3.3

Method of Shipment: FedEx Express Airbill Number: 794488304064

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Project No: 8090006.02.010

COC Number(1): 030311-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW50	AOCU-GW50	02032011	1330	-	N	1	WG	10	X	X	X	X		X	X							"			4
Trip Blank		02032011	1330	-	TB	1	WQ	3	X													"	HA-0285050		4
				-																					
				-																					
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COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3-4-11	910	[signature]	3-4-11	910
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.: 24

Method of Shipment: FedEx Express Airbill Number: 794488295409

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030311-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW43	AOCU-GW43	03032011	0955	-	N	1	WG	10	X	X	X	X		X	X							13			6
AOCU-GW45	AOCU-GW45	03032011	0850	-	N	1	WG	10	X	X	X	X		X	X							14			6
Trip Blank		03032011	0850	-	TB	1	WQ	3	X													15	HA-0285050		6
				-																					
				-																					
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COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3-4-11	910	[signature]	3-4-11	910
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.: 27

Method of Shipment: FedEx Express Airbill Number: 7968 2578 1390

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030311-07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW39	AOCU-GW39	03032011	1015	-	N	1	WG	10	X	X	X	X		X	X						16			7
AOCU-GW41	AOCU-GW41	03032011	0900	-	N	1	WG	10	X	X	X	X		X	X						17			7
Trip Blank		03032011	0900	-	TB	1	WQ	3	X												18	HA-028550		7
				-																				
				-																				
				-																				
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				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/3/11	1400	1.		
2. [illegible]	3-4-11	910	2. [illegible]	3-4-11	910
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.4

Airbill Number: 794488267096

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW /4711/311030410/3-11-11

Page: 1 of 2

Project No: 8090006.02.010

COC Number(1): 030311-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW47-M	AOCU-GW47	02032011	~~1430~~	1431-	N	1	WG	1					X										K		5
AOCU-GW47-A-M	AOCU-GW47A	02032011	~~1430~~	1431-	FD	1	WG	1					X										20		5
AOCU-GW50-M	AOCU-GW50	02032011	~~1330~~	1331-	N	1	WG	1					X										21		5
AOCU-GW52-M	AOCU-GW52	02032011	~~1415~~	1416-	N	1	WG	1					X										22		5
AOCU-GW52-M-MS	AOCU-GW52-MS	02032011	~~1415~~	1416-	MS	1	WG	1					X										23		5
AOCU-GW52-M-MSD	AOCU-GW52-MSD	02032011	~~1415~~	1416-	SD	1	WG	1					X										24		5
AOCU-GW54-M	AOCU-GW54	02032011	~~1310~~	1311-	N	1	WG	1					X										25		5
AOCU-GW56 *	AOCU-GW56	02032011	1040	-	N	1	WG	1					X												5
AOCU-GW57 *	AOCU-GW57	02032011	1000	-	N	1	WG	1					X												5
AOCU-GW59 *	AOCU-GW59	02032011	0915	-	N	1	WG	1					X												5
AOCU-GW64 *	AOCU-GW64	02032011	0930	-	N	1	WG	1					X												5

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400			
2.	[signature]	3-4-11	910	[signature]	3-4-11	9:00
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 53

Airbill Number: 794488290680

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples are in a separate water cooler

NATIONVIEW /4711/211030416/3-A-11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030411-05

LIMS Number:

Chain of Custody and Analytical Request

4.4

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW26	AOCU-GW26	03032011	1306	-	N	1	WG	1					X											5
AOCU-GW26-MS	AOCU-GW26-MS	03032011	1306	-	MS	1	WG	1					X											5
AOCU-GW26-MSD	AOCU-GW26-MSD	03032011	1306	-	SD	1	WG	1					X											5
AOCU-GW28	AOCU-GW28	03032011	1421	-	N	1	WG	1					X											5
AOCU-GW32	AOCU-GW32	03032011	1346	-	N	1	WG	1					X											5
AOCU-GW35	AOCU-GW35	03032011	1446	-	N	1	WG	1					X											5
AOCU-GW35-A	AOCU-GW35-A	03032011	1446	-	FD	1	WG	1					X											5
AOCU-GW39-M *	AOCU-GW39	03032011	1016	-	N	1	WG	1					X										26	5
AOCU-GW43-M *	AOCU-GW43	03032011	0956	-	N	1	WG	1					X										27	5
AOCU-GW45-M *	AOCU-GW45	03032011	0851	-	N	1	WG	1					X										28	5
AOCU-GW41-M *	AOCU-GW41	03032011	0901	-	N	1	WG	1					X										29	5

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/4/11	1400	1. FedEx		
2. FedEx	3-5-11	915	2. [signature]	3-5-11	915
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 796831139271

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* Samples are in this water only.

GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211030410

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Raborn, Michelle

Received Date/Time: 3/4/2011 9:10:00 AM

Samples Received via: EXT

Number of Coolers Received: 8

Cooler tracking numbers(s): 7968 2578 1390 7944 8826 7696 7968 3113 9271 7944 8829 0680 7968 2562 3770 7963 2581 4293 7944 8830 4061 7944 8824 5409

Cooler temperature(s): 4.7 1.5 3.3 2.4 2/7 1.4 5.3 4.4

Were all coolers received at a temperature of 0 - 6° C?	✓ Yes	No	N/A
Were all custody seals intact?	✓ Yes	No	N/A
Were all samples recevied in proper containers?	✓ Yes	No	N/A
Were all samples properly preserved?	✓ Yes	No	N/A
Was preservative added to any container at the lab?	Yes	✓ No	N/A
Were all containers received in good condition?	✓ Yes	No	N/A
Were all VOA vials received with no head space?	✓ Yes	No	N/A
Do all sample labels match the Chain of Custody?	✓ Yes	No	N/A
Was the client notified about any discrepancies?	Yes	No	N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 04/04/2011

GCAL Report 211030504

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Customer NationView LLC

Project AOC-U RFI Investigarion

CASE NARRATIVE

Client: NationView LLC **Report:** 211030504

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 04/04/11. The data was revised to include estimated values in the report.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 451920, the MS/MSD exhibited recovery failures. The LCS and/or LCSD recoveries are above the upper control limit for Acrylonitrile. This compound was not detected in the associated samples. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis, sample 21103050412 (AOCU-GW35-A) had one surrogate outside of control limits in the acid fraction.

METALS

In the SW-846 6010B Dissolved analysis, samples 21103050431 (AOCU-GW24) and 21103050432 (AOCU-GW24-A) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103050423 (AOCU-GW28), 21103050420 (AOCU-GW26), 21103050421 (AOCU-GW26-MS), 21103050422 (AOCU-GW26-MSD), 21103050424 (AOCU-GW32), 21103050429 (AOCU-GW20), 21103050430 (AOCU-GW22), 21103050425 (AOCU-GW35), 21103050428 (AOCU-GW19) and 21103050426 (AOCU-GW35-A) . This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 451923, the MS and/or MSD recoveries are outside the control limits for Thallium and Vanadium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 94% for Thallium and 98% for Vanadium. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B Dissolved analysis for prep batch 452013, the MS and/or MSD recoveries are outside the control limits for Thallium, Vanadium and Zinc. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. The MS/MSD recoveries are not applicable for Potassium, Calcium, Magnesium and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 7470A Dissolved analysis for prep batch 451925, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 6010B Dissolved analysis for prep batch 452012, Magnesium and Vanadium were recovered outside of the established control limits for the LCS and/or LCSD. The MS recovery is not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration. The MS and/or MSD recovery is outside the control limits for Vanadium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21103050401 (AOCU-GW26), 21103050403 (AOCU-GW26-MS), 21103050404 (AOCU-GW26-MSD), 21103050418 (AOCU-GW28), 21103050411 (AOCU-GW35), 21103050412 (AOCU-GW35-A), 21103050406 (AOCU-GW19), 21103050408 (AOCU-GW20), 21103050409 (AOCU-GW22), 21103050414 (AOCU-GW24) and 21103050415 (AOCU-GW24-A) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SM 2540 C analysis, samples 21103050401 (AOCU-GW26), 21103050406 (AOCU-GW19), 21103050408 (AOCU-GW20), 21103050409 (AOCU-GW22), 21103050411 (AOCU-GW35), 21103050412 (AOCU-GW35-A), 21103050414 (AOCU-GW24), 21103050415 (AOCU-GW24-A), 21103050417 (AOCU-GW32), 21103050418 (AOCU-GW28) and 21103050427 (AOCU-GW26 DUP) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211030504

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	AOCU-GW26	Water	03/03/2011 13:05	03/05/2011 09:15
21103050402	TRIP BLANK	Water	03/03/2011 13:04	03/05/2011 09:15
21103050403	AOCU-GW26-MS	Water	03/03/2011 13:05	03/05/2011 09:15
21103050404	AOCU-GW26-MSD	Water	03/03/2011 13:05	03/05/2011 09:15
21103050405	TRIP BLANK	Water	03/03/2011 13:05	03/05/2011 09:15
21103050406	AOCU-GW19	Water	03/04/2011 09:20	03/05/2011 09:15
21103050407	TRIP BLANK	Water	03/04/2011 09:20	03/05/2011 09:15
21103050408	AOCU-GW20	Water	03/04/2011 09:45	03/05/2011 09:15
21103050409	AOCU-GW22	Water	03/04/2011 10:45	03/05/2011 09:15
21103050410	TRIP BLANK	Water	03/04/2011 09:45	03/05/2011 09:15
21103050411	AOCU-GW35	Water	03/03/2011 14:45	03/05/2011 09:15
21103050412	AOCU-GW35-A	Water	03/03/2011 14:45	03/05/2011 09:15
21103050413	TRIP BLANK	Water	03/03/2011 14:45	03/05/2011 09:15
21103050414	AOCU-GW24	Water	03/04/2011 10:50	03/05/2011 09:15
21103050415	AOCU-GW24-A	Water	03/04/2011 10:50	03/05/2011 09:15
21103050416	TRIP BLANK	Water	03/04/2011 10:50	03/05/2011 09:15
21103050417	AOCU-GW32	Water	03/03/2011 13:45	03/05/2011 09:15
21103050418	AOCU-GW28	Water	03/03/2011 14:20	03/05/2011 09:15
21103050419	TRIP BLANK	Water	03/03/2011 13:45	03/05/2011 09:15
21103050420	AOCU-GW26-M	Water	03/03/2011 13:06	03/05/2011 09:15
21103050421	AOCU-GW26-M-MS	Water	03/03/2011 13:06	03/05/2011 09:15
21103050422	AOCU-GW26-M-MSD	Water	03/03/2011 13:06	03/05/2011 09:15
21103050423	AOCU-GW28-M	Water	03/03/2011 14:21	03/05/2011 09:15
21103050424	AOCU-GW32-M	Water	03/03/2011 13:46	03/05/2011 09:15
21103050425	AOCU-GW35-M	Water	03/03/2011 14:46	03/05/2011 09:15
21103050426	AOCU-GW35-A-M	Water	03/03/2011 14:46	03/05/2011 09:15
21103050427	AOCU-GW26 DUP	Water	03/03/2011 13:05	03/05/2011 09:15
21103050428	AOCU-GW19-M	Water	03/04/2011 09:21	03/08/2011 08:55
21103050429	AOCU-GW20-M	Water	03/04/2011 09:46	03/08/2011 08:55
21103050430	AOCU-GW22-M	Water	03/04/2011 10:46	03/08/2011 08:55
21103050431	AOCU-GW24-M	Water	03/04/2011 10:51	03/08/2011 08:55
21103050432	AOCU-GW24-A-M	Water	03/04/2011 10:51	03/08/2011 08:55

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	**AOCU-GW26**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 10:29	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	**AOCU-GW26**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 10:29	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.9	ug/L	88	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.4	ug/L	105	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 10:29	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	**AOCU-GW26**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 14:38	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	**AOCU-GW26**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 14:38	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	46.1	ug/L	92	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.3	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	37.9	ug/L	76	43 - 138
4165-62-2	Phenol-d5	100	48.6	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	59	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	82	ug/L	82	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 13:49	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.6	ug/L	93	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 00:10	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.4	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050401	**AOCU-GW26**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 13:49	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.8	ug/L	88	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**95000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	03/05/2011 15:20	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**111**	**10.0**	**2.60**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050402	**TRIP BLANK**	Water	03/03/2011 13:04	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 10:52	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050402	**TRIP BLANK**	Water	03/03/2011 13:04	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 10:52	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.3	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.8	ug/L	106	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050403	**AOCU-GW26-MS**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:57	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	42.7	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	50.1	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	59.8	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	45.6	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	53.8	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	49.5	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	46.5	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	43.3	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	63.3	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	43.2	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	44.9	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	65.4	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	48.0	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	45.4	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	52.3	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	52.8	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	43.8	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	43.1	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	49.0	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	42.4	5	0.058	ug/L
544-10-5	1-Chlorohexane	37.2	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	44.2	5	0.112	ug/L
78-93-3	2-Butanone	72.5	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	44.3	5	0.090	ug/L
591-78-6	2-Hexanone	77.9	5	0.302	ug/L
106-43-4	4-Chlorotoluene	44.8	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	44.3	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	80.2	5	0.142	ug/L
67-64-1	Acetone	52.5	25	0.322	ug/L
107-02-8	Acrolein	426	25	2.49	ug/L
107-13-1	Acrylonitrile	671	25	1.62	ug/L
71-43-2	Benzene	50.2	5	0.049	ug/L
108-86-1	Bromobenzene	47.4	5	0.095	ug/L
74-97-5	Bromochloromethane	47.1	5	0.238	ug/L
75-27-4	Bromodichloromethane	49.5	5	0.071	ug/L
75-25-2	Bromoform	49.2	5	0.278	ug/L
74-83-9	Bromomethane	41.9	5	0.276	ug/L
75-15-0	Carbon disulfide	44.4	5	0.190	ug/L
56-23-5	Carbon tetrachloride	51.5	5	0.056	ug/L
108-90-7	Chlorobenzene	42.1	5	0.055	ug/L
75-00-3	Chloroethane	51.6	5	0.279	ug/L
67-66-3	Chloroform	48.9	5	0.062	ug/L
74-87-3	Chloromethane	55.1	5	0.076	ug/L
124-48-1	Dibromochloromethane	47.6	5	0.133	ug/L
74-95-3	Dibromomethane	52.1	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	50.2	5	0.088	ug/L
100-41-4	Ethylbenzene	41.7	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	44.6	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	39.4	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050403	**AOCU-GW26-MS**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:57	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**32.8**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**49.8**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**49.0**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**38.0**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**41.4**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**44.3**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**45.0**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**53.5**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**49.0**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**71.9**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**52.7**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**52.7**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.0**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**81.7**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.7**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**45.0**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**45.2**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**42.5**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**44.8**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.0**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**45.1**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**50.6**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**45.7**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**65.6**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44	ug/L	88	84 - 120
1868-53-7	Dibromofluoromethane	50	51.9	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	46.8	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.7	ug/L	111	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 14:54	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**73.4**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**72.1**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**95.4**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050403	**AOCU-GW26-MS**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 14:54	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**81.8**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**88.9**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**32.2**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**89.3**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**63.4**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**46.3**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**86.9**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050403	**AOCU-GW26-MS**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 14:54	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**91.3**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.6	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.1	ug/L	80	16 - 128
1718-51-0	Terphenyl-d14	50	35.1	ug/L	70	43 - 138
4165-62-2	Phenol-d5	100	47.7	ug/L	48	10 - 120
367-12-4	2-Fluorophenol	100	61.6	ug/L	62	10 - 120
118-79-6	2,4,6-Tribromophenol	100	92.4	ug/L	92	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 14:06	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**906**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	49.4	ug/L	99	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 11:12	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**515**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	28.9	ug/L	96	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 15:03	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1590**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.8	ug/L	94	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050403	**AOCU-GW26-MS**	Water	03/03/2011 13:05	03/05/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	03/05/2011 15:21	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**625**	**10.0**	**2.60**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050404	**AOCU-GW26-MSD**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 14:20	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	40.4	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	46.7	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	60.2	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	46.7	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	51.8	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	48.7	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	46.8	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	44.4	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	63.2	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	42.7	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	45.0	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	69.0	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	48.5	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	45.0	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	51.6	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	48.1	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	44.1	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	42.8	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	49.5	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	42.7	5	0.058	ug/L
544-10-5	1-Chlorohexane	34.9	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	43.2	5	0.112	ug/L
78-93-3	2-Butanone	71.6	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	46.3	5	0.090	ug/L
591-78-6	2-Hexanone	78.4	5	0.302	ug/L
106-43-4	4-Chlorotoluene	43.8	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	44.0	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	78.5	5	0.142	ug/L
67-64-1	Acetone	54.4	25	0.322	ug/L
107-02-8	Acrolein	420	25	2.49	ug/L
107-13-1	Acrylonitrile	658	25	1.62	ug/L
71-43-2	Benzene	46.0	5	0.049	ug/L
108-86-1	Bromobenzene	45.1	5	0.095	ug/L
74-97-5	Bromochloromethane	44.1	5	0.238	ug/L
75-27-4	Bromodichloromethane	48.4	5	0.071	ug/L
75-25-2	Bromoform	49.7	5	0.278	ug/L
74-83-9	Bromomethane	50.7	5	0.276	ug/L
75-15-0	Carbon disulfide	46.8	5	0.190	ug/L
56-23-5	Carbon tetrachloride	46.2	5	0.056	ug/L
108-90-7	Chlorobenzene	40.9	5	0.055	ug/L
75-00-3	Chloroethane	49.0	5	0.279	ug/L
67-66-3	Chloroform	44.1	5	0.062	ug/L
74-87-3	Chloromethane	59.3	5	0.076	ug/L
124-48-1	Dibromochloromethane	46.2	5	0.133	ug/L
74-95-3	Dibromomethane	48.9	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	46.9	5	0.088	ug/L
100-41-4	Ethylbenzene	41.3	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	45.7	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	38.9	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050404	**AOCU-GW26-MSD**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 14:20	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**28.5**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**49.4**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**51.3**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**37.5**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**39.4**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**43.0**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**43.1**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.6**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**47.5**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**69.6**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**52.0**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**48.8**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**47.0**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**79.4**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**46.7**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**42.0**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**43.3**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**41.0**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**44.0**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.1**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**45.0**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**49.1**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**44.2**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**64.9**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.1	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	52	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	47	ug/L	94	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.8	ug/L	106	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:08	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**69.7**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**65.5**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**95.6**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050404	**AOCU-GW26-MSD**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:08	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**82.4**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**91.6**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**31.9**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**87.2**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**61.2**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**46.3**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**105**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050404	**AOCU-GW26-MSD**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:08	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**92.4**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.6	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.4	ug/L	77	16 - 128
1718-51-0	Terphenyl-d14	50	45.7	ug/L	91	43 - 138
4165-62-2	Phenol-d5	100	47.2	ug/L	47	10 - 120
367-12-4	2-Fluorophenol	100	59.3	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.3	ug/L	90	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 14:27	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**928**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.4	ug/L	95	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 11:36	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**438**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	29.6	ug/L	99	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 15:56	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1660**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.6	ug/L	93	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050404	**AOCU-GW26-MSD**	Water	03/03/2011 13:05	03/05/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	03/05/2011 15:23	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**626**	**10.0**	**2.60**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050405	**TRIP BLANK**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 11:15	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050405	**TRIP BLANK**	Water	03/03/2011 13:05	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 11:15	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050406	**AOCU-GW19**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:06	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	**Benzene**	**1.21J**	**5**	**0.049**	**ug/L**
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050406	**AOCU-GW19**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:06	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	48.5	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.2	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:06	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050406	**AOCU-GW19**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:38	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050406	**AOCU-GW19**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:38	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.4	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	33.1	ug/L	66	16 - 128
1718-51-0	Terphenyl-d14	50	37.2	ug/L	74	43 - 138
4165-62-2	Phenol-d5	100	50.9	ug/L	51	10 - 120
367-12-4	2-Fluorophenol	100	56.5	ug/L	57	10 - 120
118-79-6	2,4,6-Tribromophenol	100	73.5	ug/L	74	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 16:14	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.9	ug/L	96	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 01:23	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	23	ug/L	77	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050406	**AOCU-GW19**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 16:14	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45	ug/L	90	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**183000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/05/2011 15:31	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**5.49**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050407	**TRIP BLANK**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 11:37	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050407	**TRIP BLANK**	Water	03/04/2011 09:20	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 11:37	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050408	**AOCU-GW20**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:29	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	**Bromomethane**	**5.38**	**5**	**0.276**	**ug/L**
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	**Chloromethane**	**2.04J**	**5**	**0.076**	**ug/L**
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050408	**AOCU-GW20**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:29	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.5	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	48.8	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	50.5	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.3	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:29	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050408	**AOCU-GW20**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:53	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050408	**AOCU-GW20**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 15:53	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.6	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	34.3	ug/L	69	16 - 128
1718-51-0	Terphenyl-d14	50	31.9	ug/L	64	43 - 138
4165-62-2	Phenol-d5	100	53.3	ug/L	53	10 - 120
367-12-4	2-Fluorophenol	100	61.2	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	100	76.5	ug/L	77	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 16:31	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**53.1J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	49.8	ug/L	100	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 01:47	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050408	**AOCU-GW20**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 16:31	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.7	ug/L	93	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**165000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	03/05/2011 15:33	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**500**	**10.0**	**2.60**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050409	**AOCU-GW22**	Water	03/04/2011 10:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:51	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	**Bromomethane**	**3.36J**	**5**	**0.276**	**ug/L**
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	**Chloromethane**	**1.10J**	**5**	**0.076**	**ug/L**
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050409	**AOCU-GW22**	Water	03/04/2011 10:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:51	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.6	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	49.4	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.6	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 15:51	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050409	**AOCU-GW22**	Water	03/04/2011 10:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:08	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050409	**AOCU-GW22**	Water	03/04/2011 10:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:08	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.8	ug/L	88	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.9	ug/L	72	16 - 128
1718-51-0	Terphenyl-d14	50	39.2	ug/L	78	43 - 138
4165-62-2	Phenol-d5	100	48.5	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	58.5	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	81.6	ug/L	82	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 16:49	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**54.0J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	48.8	ug/L	98	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 02:11	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.2	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050409	**AOCU-GW22**	Water	03/04/2011 10:45	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 16:49	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.8	ug/L	92	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**136000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	03/05/2011 15:34	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**223**	**5.00**	**1.30**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050410	**TRIP BLANK**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:00	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050410	**TRIP BLANK**	Water	03/04/2011 09:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:00	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.4	ug/L	95	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.8	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050411	**AOCU-GW35**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:14	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	**Bromomethane**	**3.47J**	**5**	**0.276**	**ug/L**
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050411	**AOCU-GW35**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:14	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.4	ug/L	89	84 - 120
1868-53-7	Dibromofluoromethane	50	47	ug/L	94	87 - 116
2037-26-5	Toluene d8	50	50.4	ug/L	101	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:14	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050411	**AOCU-GW35**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:22	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050411	**AOCU-GW35**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:22	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	37.5	ug/L	75	52 - 120
321-60-8	2-Fluorobiphenyl	50	30.9	ug/L	62	16 - 128
1718-51-0	Terphenyl-d14	50	32.8	ug/L	66	43 - 138
4165-62-2	Phenol-d5	100	45.3	ug/L	45	10 - 120
367-12-4	2-Fluorophenol	100	52.3	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	65.6	ug/L	66	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 17:07	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**84.9J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.8	ug/L	90	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 02:37	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.2	ug/L	84	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050411	**AOCU-GW35**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 17:07	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.1	ug/L	84	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**157000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/05/2011 15:26	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**38.6**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050412	**AOCU-GW35-A**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:37	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	**Bromomethane**	**3.88J**	**5**	**0.276**	**ug/L**
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	**Chloromethane**	**1.70J**	**5**	**0.076**	**ug/L**
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050412	**AOCU-GW35-A**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:37	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44	ug/L	88	84 - 120
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	47.9	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.7	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 16:37	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050412	**AOCU-GW35-A**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:37	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050412	**AOCU-GW35-A**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:37	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.6	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.5	ug/L	75	16 - 128
1718-51-0	Terphenyl-d14	50	39.7	ug/L	79	43 - 138
4165-62-2	Phenol-d5	100	46	ug/L	46	10 - 120
367-12-4	2-Fluorophenol	100	48.2	ug/L	48	10 - 120
118-79-6	2,4,6-Tribromophenol	100	40.9	ug/L	**41***	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 17:25	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**52.3J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.9	ug/L	96	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 03:01	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.7	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050412	**AOCU-GW35-A**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 17:25	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45	ug/L	90	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**166000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	03/05/2011 15:28	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**39.3**	**1.00**	**0.260**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050413	**TRIP BLANK**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:24	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050413	**TRIP BLANK**	Water	03/03/2011 14:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:24	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.3	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	52.4	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	47.8	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050414	**AOCU-GW24**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:00	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050414	**AOCU-GW24**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:00	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.5	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	49.2	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.4	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:00	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050414	**AOCU-GW24**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:52	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050414	**AOCU-GW24**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 16:52	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41	ug/L	82	52 - 120
321-60-8	2-Fluorobiphenyl	50	33.8	ug/L	68	16 - 128
1718-51-0	Terphenyl-d14	50	38.5	ug/L	77	43 - 138
4165-62-2	Phenol-d5	100	48.6	ug/L	49	10 - 120
367-12-4	2-Fluorophenol	100	53.6	ug/L	54	10 - 120
118-79-6	2,4,6-Tribromophenol	100	74.9	ug/L	75	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 17:42	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	50.8	ug/L	102	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 03:25	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.8	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050414	**AOCU-GW24**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 17:42	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.7	ug/L	95	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**121000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	03/05/2011 15:35	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**136**	**5.00**	**1.30**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050415	**AOCU-GW24-A**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:23	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050415	**AOCU-GW24-A**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:23	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.2	ug/L	90	84 - 120
1868-53-7	Dibromofluoromethane	50	52.2	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	55.7	ug/L	111	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:23	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050415	**AOCU-GW24-A**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:07	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050415	**AOCU-GW24-A**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:07	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.6	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.1	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	44.6	ug/L	89	43 - 138
4165-62-2	Phenol-d5	100	51.4	ug/L	51	10 - 120
367-12-4	2-Fluorophenol	100	60.4	ug/L	60	10 - 120
118-79-6	2,4,6-Tribromophenol	100	87.1	ug/L	87	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 18:00	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	48	ug/L	96	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 03:48	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.1	ug/L	84	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050415	**AOCU-GW24-A**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 18:00	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45	ug/L	90	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**123000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			500	03/05/2011 15:36	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**142**	**5.00**	**1.30**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050416	**TRIP BLANK**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:47	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050416	**TRIP BLANK**	Water	03/04/2011 10:50	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 12:47	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	84 - 120
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	49	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050417	**AOCU-GW32**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:47	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050417	**AOCU-GW32**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:47	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.7	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	49.3	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 17:47	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050417	**AOCU-GW32**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:22	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050417	**AOCU-GW32**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:22	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.3	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	37.2	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	41.1	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	52	ug/L	52	10 - 120
367-12-4	2-Fluorophenol	100	59.3	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	85.6	ug/L	86	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 18:18	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**44.5J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	49.7	ug/L	99	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 05:01	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.1	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050417	**AOCU-GW32**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 18:18	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.7	ug/L	93	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**132000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/05/2011 15:24	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.146**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050418	**AOCU-GW28**	Water	03/03/2011 14:20	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 18:11	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050418	**AOCU-GW28**	Water	03/03/2011 14:20	03/05/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 18:11	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.6	ug/L	91	84 - 120
1868-53-7	Dibromofluoromethane	50	48	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	49.8	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	54.3	ug/L	109	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 18:11	JCK	452709

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050418	**AOCU-GW28**	Water	03/03/2011 14:20	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:37	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050418	**AOCU-GW28**	Water	03/03/2011 14:20	03/05/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 12:50	451977	3510C	1	03/09/2011 17:37	JEW	452114

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.1	ug/L	88	52 - 120
321-60-8	2-Fluorobiphenyl	50	38	ug/L	76	16 - 128
1718-51-0	Terphenyl-d14	50	41	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	46.7	ug/L	47	10 - 120
367-12-4	2-Fluorophenol	100	55	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	85.3	ug/L	85	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:35	451975	3510C	1	03/08/2011 18:36	SMH	452105

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.9	ug/L	96	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/11/2011 05:25	BMR	452172

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.4	ug/L	88	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050418	**AOCU-GW28**	Water	03/03/2011 14:20	03/05/2011 09:15

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 09:33	451976	3510C	1	03/08/2011 18:36	SMH	452106

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45	ug/L	90	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**86500**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	03/05/2011 15:25	AEL	451878

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**60.5**	**2.00**	**0.520**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050419	**TRIP BLANK**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:10	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050419	**TRIP BLANK**	Water	03/03/2011 13:45	03/05/2011 09:15

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/07/2011 13:10	RJU	451920

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.4	ug/L	107	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050420	**AOCU-GW26-M**	Water	03/03/2011 13:06	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	2	03/09/2011 14:49	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00016U	0.00040	0.00016	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	10	03/10/2011 15:55	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.053B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.052B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**994**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.023B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.029B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6120**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**1.02**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.047B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**164**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 19:39	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**27400**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050421	**AOCU-GW26-M-MS**	Water	03/03/2011 13:06	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	2	03/09/2011 14:51	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00331**	**0.00040**	**0.00016**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	10	03/10/2011 16:02	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**5.05**	**2.00**	**0.44**	**mg/L**
7440-36-0	**Antimony**	**0.57B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.59**	**0.10**	**0.025**	**mg/L**
7440-39-3	**Barium**	**0.46**	**0.10**	**0.0011**	**mg/L**
7440-41-7	**Beryllium**	**0.49**	**0.050**	**0.0011**	**mg/L**
7440-43-9	**Cadmium**	**0.46**	**0.050**	**0.0011**	**mg/L**
7440-70-2	**Calcium**	**1010**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.49**	**0.10**	**0.0034**	**mg/L**
7440-48-4	**Cobalt**	**0.48**	**0.10**	**0.0040**	**mg/L**
7440-50-8	**Copper**	**0.56**	**0.10**	**0.014**	**mg/L**
7439-89-6	**Iron**	**4.92**	**1.00**	**0.38**	**mg/L**
7439-92-1	**Lead**	**0.38**	**0.15**	**0.014**	**mg/L**
7439-95-4	**Magnesium**	**6260**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**1.52**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.51**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**176**	**5.00**	**0.53**	**mg/L**
7782-49-2	**Selenium**	**0.54**	**0.40**	**0.043**	**mg/L**
7440-22-4	**Silver**	**0.47**	**0.10**	**0.0060**	**mg/L**
7440-28-0	**Thallium**	**0.40**	**0.20**	**0.018**	**mg/L**
7440-62-2	**Vanadium**	**0.26**	**0.20**	**0.0082**	**mg/L**
7440-66-6	**Zinc**	**0.31**	**0.20**	**0.027**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 19:46	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**27600**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050422	**AOCU-GW26-M-MSD**	Water	03/03/2011 13:06	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	2	03/09/2011 14:53	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00331**	**0.00040**	**0.00016**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	10	03/10/2011 16:09	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.54**	**2.00**	**0.44**	**mg/L**
7440-36-0	**Antimony**	**0.58B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.58**	**0.10**	**0.025**	**mg/L**
7440-39-3	**Barium**	**0.45**	**0.10**	**0.0011**	**mg/L**
7440-41-7	**Beryllium**	**0.47**	**0.050**	**0.0011**	**mg/L**
7440-43-9	**Cadmium**	**0.45**	**0.050**	**0.0011**	**mg/L**
7440-70-2	**Calcium**	**993**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.47**	**0.10**	**0.0034**	**mg/L**
7440-48-4	**Cobalt**	**0.46**	**0.10**	**0.0040**	**mg/L**
7440-50-8	**Copper**	**0.54**	**0.10**	**0.014**	**mg/L**
7439-89-6	**Iron**	**4.76**	**1.00**	**0.38**	**mg/L**
7439-92-1	**Lead**	**0.36**	**0.15**	**0.014**	**mg/L**
7439-95-4	**Magnesium**	**6130**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**1.46**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.49**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**171**	**5.00**	**0.53**	**mg/L**
7782-49-2	**Selenium**	**0.50**	**0.40**	**0.043**	**mg/L**
7440-22-4	**Silver**	**0.46**	**0.10**	**0.0060**	**mg/L**
7440-28-0	**Thallium**	**0.40**	**0.20**	**0.018**	**mg/L**
7440-62-2	**Vanadium**	**0.25**	**0.20**	**0.0082**	**mg/L**
7440-66-6	**Zinc**	**0.31**	**0.20**	**0.027**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 19:53	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**27200**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050423	**AOCU-GW28-M**	Water	03/03/2011 14:21	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:51	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	5	03/08/2011 23:13	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.032B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.053**	**0.050**	**0.013**	**mg/L**
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**931**	**0.50**	**0.13**	**mg/L**
7440-47-3	Chromium	0.0017U	0.050	0.0017	mg/L
7440-48-4	**Cobalt**	**0.0021B**	**0.050**	**0.0020**	**mg/L**
7440-50-8	Copper	0.0069U	0.050	0.0069	mg/L
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**4350**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**1.31**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.030B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**157**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	50	03/10/2011 22:15	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**21600**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050424	**AOCU-GW32-M**	Water	03/03/2011 13:46	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:53	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	10	03/10/2011 17:28	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.073B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.032B**	**0.10**	**0.025**	**mg/L**
7440-39-3	**Barium**	**0.0063B**	**0.10**	**0.0011**	**mg/L**
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**1210**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.022B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.065B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**5810**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**4.10**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.047B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**201**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 22:22	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**29600**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050425	**AOCU-GW35-M**	Water	03/03/2011 14:46	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:54	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 22:30	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**39100**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	20	03/11/2011 09:32	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.12B**	**1.20**	**0.081**	**mg/L**
7440-38-2	**Arsenic**	**0.10B**	**0.20**	**0.051**	**mg/L**
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**1130**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.062B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.24**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**9430**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**1.59**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.10B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**187**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050426	**AOCU-GW35-A-M**	Water	03/03/2011 14:46	03/05/2011 09:15

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451925	SW-846 7470A Dissolved	1	03/09/2011 13:56	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	100	03/10/2011 22:37	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**37400**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/07/2011 11:00	451923	SW-846 3005 Dissolved	20	03/11/2011 09:39	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.090B**	**1.20**	**0.081**	**mg/L**
7440-38-2	Arsenic	0.051U	0.20	0.051	mg/L
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**1140**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.056B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.24**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**9600**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**1.61**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.088B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**190**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050427	**AOCU-GW26 DUP**	Water	03/03/2011 13:05	03/05/2011 09:15

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/07/2011 13:15	DJH	451933

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**97000**	**500**	**500**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050428	**AOCU-GW19-M**	Water	03/04/2011 09:21	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452016	SW-846 7470A Dissolved	1	03/09/2011 14:10	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/10/2011 22:58	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**47300**	**100**	**5.14**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	20	03/11/2011 10:08	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.88U	4.00	0.88	mg/L
7440-36-0	**Antimony**	**0.13B**	**1.20**	**0.081**	**mg/L**
7440-38-2	Arsenic	0.051U	0.20	0.051	mg/L
7440-39-3	Barium	0.0022U	0.20	0.0022	mg/L
7440-41-7	Beryllium	0.0023U	0.10	0.0023	mg/L
7440-43-9	Cadmium	0.0022U	0.10	0.0022	mg/L
7440-70-2	**Calcium**	**822**	**2.00**	**0.51**	**mg/L**
7440-47-3	**Chromium**	**0.057B**	**0.20**	**0.0069**	**mg/L**
7440-48-4	Cobalt	0.0079U	0.20	0.0079	mg/L
7440-50-8	**Copper**	**0.26**	**0.20**	**0.027**	**mg/L**
7439-89-6	Iron	0.75U	2.00	0.75	mg/L
7439-92-1	Lead	0.028U	0.30	0.028	mg/L
7439-95-4	**Magnesium**	**9200**	**2.00**	**0.29**	**mg/L**
7439-96-5	**Manganese**	**1.06**	**0.30**	**0.025**	**mg/L**
7440-02-0	**Nickel**	**0.089B**	**0.80**	**0.019**	**mg/L**
7440-09-7	**Potassium**	**327**	**10.0**	**1.05**	**mg/L**
7782-49-2	Selenium	0.087U	0.80	0.087	mg/L
7440-22-4	Silver	0.012U	0.20	0.012	mg/L
7440-28-0	Thallium	0.035U	0.40	0.035	mg/L
7440-62-2	Vanadium	0.016U	0.40	0.016	mg/L
7440-66-6	Zinc	0.054U	0.40	0.054	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050429	**AOCU-GW20-M**	Water	03/04/2011 09:46	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452016	SW-846 7470A Dissolved	2	03/09/2011 14:56	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00016U	0.00040	0.00016	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/10/2011 19:22	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.097B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.047B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**899**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.014B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**8540**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**1.04**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.068B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**331**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/10/2011 23:05	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**39900**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050430	**AOCU-GW22-M**	Water	03/04/2011 10:46	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452016	SW-846 7470A Dissolved	1	03/09/2011 14:12	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/10/2011 20:00	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.092B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.058B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**953**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.023B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.029B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**7320**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.94**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.066B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**215**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/10/2011 23:12	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**33300**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050431	**AOCU-GW24-M**	Water	03/04/2011 10:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452016	SW-846 7470A Dissolved	1	03/09/2011 14:14	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452013	SW-846 3005 Dissolved	10	03/11/2011 17:05	CLB	452295

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.056B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.098B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**860**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.0044B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6890**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.34**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.046B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**226**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452013	SW-846 3005 Dissolved	100	03/14/2011 14:22	BNB	452388

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**31800**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103050432	**AOCU-GW24-A-M**	Water	03/04/2011 10:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452016	SW-846 7470A Dissolved	1	03/09/2011 14:15	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452013	SW-846 3005 Dissolved	10	03/11/2011 17:40	CLB	452295

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.061B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.049B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**836**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.015B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	**Cobalt**	**0.0044B**	**0.10**	**0.0040**	**mg/L**
7440-50-8	**Copper**	**0.015B**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**6510**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.32**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.056B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**234**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452013	SW-846 3005 Dissolved	100	03/14/2011 15:01	BNB	452388

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**33000**	**100**	**5.14**	**mg/L**

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920	**Client ID**	MB451920	LCS451920	LCSD451920
Prep Batch N/A	**GCAL ID**	926762	926763	926764
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	03/07/2011 09:52	03/07/2011 08:14	03/07/2011 08:50
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322	50.0	56.0	112	59 - 134	54.6	109	3	30
107-02-8	Acrolein	2.49U	2.49	250	360	144	33 - 157	365	146	1	30
107-13-1	Acrylonitrile	1.62U	1.62	250	462	**185***	62 - 124	491	**196***	6	30
74-97-5	Bromochloromethane	0.238U	0.238	50.0	42.2	84	78 - 112	43.3	87	3	30
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	45.7	91	76 - 116	45.3	91	0.9	30
75-25-2	Bromoform	0.278U	0.278	50.0	49.4	99	68 - 128	50.2	100	2	30
74-83-9	Bromomethane	0.276U	0.276	50.0	53.9	108	55 - 151	53.6	107	0.6	30
75-15-0	Carbon disulfide	0.190U	0.190	50.0	51.0	102	67 - 147	49.5	99	3	30
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	51.5	103	74 - 139	48.4	97	6	30
75-00-3	Chloroethane	0.279U	0.279	50.0	51.2	102	54 - 166	51.8	104	1	30
136777-61-2	m,p-Xylene	0.099U	0.099	100	99.1	99	83 - 121	94.5	95	5	30
67-66-3	Chloroform	0.062U	0.062	50.0	45.4	91	85 - 123	44.4	89	2	30
74-87-3	Chloromethane	0.076U	0.076	50.0	50.5	101	55 - 173	50.9	102	0.8	30
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	48.7	97	74 - 116	47.7	95	2	30
74-95-3	Dibromomethane	0.197U	0.197	50.0	48.0	96	81 - 116	48.6	97	1	30
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	52.2	104	34 - 158	49.4	99	6	30
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	50.4	101	82 - 127	48.8	98	3	30
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	49.2	98	76 - 122	47.9	96	3	30
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	49.4	99	81 - 114	46.7	93	6	30
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	50.9	102	82 - 126	49.7	99	2	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	48.8	98	69 - 125	46.7	93	4	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	47.8	96	81 - 120	47.3	95	1	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	47.2	94	83 - 119	44.9	90	5	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	47.8	96	87 - 123	47.9	96	0.2	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	48.4	97	87 - 118	48.2	96	0.4	30
97-63-2	Ethyl methacrylate	0.340U	0.340								
591-78-6	2-Hexanone	0.302U	0.302	50.0	47.2	94	58 - 125	49.2	98	4	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	51.6	103	87 - 131	47.7	95	8	30
78-93-3	2-Butanone	0.235U	0.235	50.0	50.3	101	61 - 127	52.4	105	4	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.2	86	72 - 125	43.2	86	0	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	45.8	92	62 - 125	48.7	97	6	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.3	103	86 - 125	51.0	102	0.6	30
100-42-5	Styrene	0.058U	0.058	50.0	48.2	96	78 - 118	47.5	95	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920		**Client ID**	MB451920			LCS451920			LCSD451920		
Prep Batch N/A		**GCAL ID**	926762			926763			926764		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
127-18-4	Tetrachloroethene	0.210U	0.210		50.0	47.6	95	80 - 131	46.4	93	3	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150		50.0	44.9	90	81 - 119	44.4	89	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112		50.0	47.1	94	71 - 120	48.8	98	4	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138		50.0	49.8	100	68 - 123	50.7	101	2	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078		50.0	49.7	99	79 - 133	46.8	94	6	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179		50.0	46.9	94	80 - 114	46.0	92	2	30
75-69-4	Trichlorofluoromethane	0.094U	0.094		50.0	55.7	111	66 - 156	53.3	107	4	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063		50.0	47.8	96	77 - 115	49.1	98	3	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080		50.0	49.9	100	82 - 120	48.9	98	2	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053		50.0	49.0	98	83 - 123	48.7	97	0.6	30
75-01-4	Vinyl chloride	0.104U	0.104		50.0	53.0	106	57 - 153	51.4	103	3	30
95-47-6	o-Xylene	0.077U	0.077		50.0	48.6	97	83 - 121	46.0	92	5	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082		50.0	44.1	88	61 - 118	47.0	94	6	30
106-93-4	1,2-Dibromoethane	0.169U	0.169		50.0	44.8	90	80 - 115	46.7	93	4	30
80-62-6	Methyl methacrylate	0.606U	0.606									
107-12-0	Propionitrile	3.06U	3.06									
108-05-4	Vinyl acetate	0.197U	0.197		50.0	55.7	111	38 - 159	55.4	111	0.5	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084		50.0	48.1	96	75 - 116	50.0	100	4	30
99-87-6	4-Isopropyltoluene	0.175U	0.175		50.0	52.8	106	83 - 125	50.6	101	4	30
110-54-3	n-Hexane	0.126U	0.126		50.0	60.0	120	71 - 134	60.5	121	0.8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429		50.0	49.1	98	51 - 137	50.8	102	3	30
594-20-7	2,2-Dichloropropane	0.112U	0.112		50.0	47.8	96	77 - 138	45.1	90	6	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141		50.0	57.9	116	74 - 139	54.4	109	6	30
563-58-6	1,1-Dichloropropene	0.071U	0.071		50.0	49.5	99	87 - 127	49.0	98	1	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20		50.0	49.2	98	63 - 125	50.4	101	2	30
142-28-9	1,3-Dichloropropane	0.113U	0.113		50.0	48.4	97	81 - 113	48.4	97	0	30
108-86-1	Bromobenzene	0.095U	0.095		50.0	44.6	89	83 - 115	47.0	94	5	30
95-49-8	2-Chlorotoluene	0.090U	0.090		50.0	49.3	99	81 - 121	48.7	97	1	30
106-43-4	4-Chlorotoluene	0.046U	0.046		50.0	49.0	98	84 - 120	48.6	97	0.8	30
98-06-6	tert-Butylbenzene	0.058U	0.058		50.0	51.9	104	83 - 126	51.3	103	1	30
135-98-8	sec-Butylbenzene	0.088U	0.088		50.0	53.2	106	86 - 127	50.5	101	5	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080		50.0	45.7	91	86 - 115	46.0	92	0.7	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058		50.0	48.1	96	87 - 113	46.4	93	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920		**Client ID**	MB451920			LCS451920			LCSD451920		
Prep Batch N/A		**GCAL ID**	926762			926763			926764		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/07/2011 09:52			03/07/2011 08:14			03/07/2011 08:50		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	57.2	114	84 - 124	53.4	107	7	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	48.7	97	85 - 115	46.5	93	5	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	58.3	117	71 - 133	53.2	106	9	30
91-20-3	Naphthalene		0.175U	0.175	50.0	46.2	92	59 - 125	48.9	98	6	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	49.5	99	64 - 126	51.0	102	3	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	54.4	109	87 - 128	52.3	105	4	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	52.0	104	75 - 133	50.8	102	2	20
71-43-2	Benzene		0.049U	0.049	50.0	48.1	96	83 - 124	47.4	95	1	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	47.9	96	85 - 124	46.6	93	3	20
108-88-3	Toluene		0.078U	0.078	50.0	47.1	94	86 - 116	45.7	91	3	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	45.2	90	87 - 115	45.4	91	0.4	20
Surrogate												
460-00-4	4-Bromofluorobenzene		46	92	50	49.9	100	84 - 120	49.2	98		
1868-53-7	Dibromofluoromethane		48.5	97	50	50.4	101	87 - 116	50.8	102		
2037-26-5	Toluene d8		48.4	97	50	48.9	98	86 - 112	49.2	98		
17060-07-0	1,2-Dichloroethane-d4		50.9	102	50	52.3	105	76 - 127	52.9	106		

Analytical Batch 451920		**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch N/A		**GCAL ID**	21103050401			21103050403			21103050404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/07/2011 10:29			03/07/2011 13:57			03/07/2011 14:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	42.7	85	81 - 119	40.4	81	6	10
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	50.1	100	79 - 133	46.7	93	7	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	59.8	120	71 - 120	60.2	120	0.7	11
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	45.6	91	80 - 114	46.7	93	2	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920	**Client ID**	AOCU-GW26	AOCU-GW26-MS	AOCU-GW26-MSD
Prep Batch N/A	**GCAL ID**	21103050401	21103050403	21103050404
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/07/2011 10:29	03/07/2011 13:57	03/07/2011 14:20
	Matrix	Water	Water	Water

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-34-3	1,1-Dichloroethane	0.00	0.064	50.0	53.8	108	82 - 127	51.8	104	4	10
75-35-4	1,1-Dichloroethene	0.00	0.183	50.0	49.5	99	75 - 133	48.7	97	2	13
563-58-6	1,1-Dichloropropene	0.00	0.071	50.0	46.5	93	87 - 127	46.8	94	0.6	10
87-61-6	1,2,3-Trichlorobenzene	0.00	0.107	50.0	43.3	87	64 - 126	44.4	89	3	16
96-18-4	1,2,3-Trichloropropane	0.00	0.063	50.0	63.3	**127***	77 - 115	63.2	**126***	0.2	12
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	43.2	86	68 - 123	42.7	85	1	11
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	44.9	90	82 - 120	45.0	90	0.2	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	65.4	**131***	61 - 118	69.0	**138***	5	15
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	48.0	96	80 - 115	48.5	97	1	10
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	45.4	91	85 - 115	45.0	90	0.9	9
107-06-2	1,2-Dichloroethane	0.00	0.121	50.0	52.3	105	76 - 122	51.6	103	1	11
78-87-5	1,2-Dichloropropane	0.00	0.114	50.0	52.8	106	81 - 120	48.1	96	9	11
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	43.8	88	83 - 123	44.1	88	0.7	10
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	43.1	86	86 - 115	42.8	86	0.7	9
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	49.0	98	81 - 113	49.5	99	1	11
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	42.4	**85***	87 - 113	42.7	**85***	0.7	10
544-10-5	1-Chlorohexane	0.00	0.139	50.0	37.2	**74***	87 - 128	34.9	**70***	6	10
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	44.2	88	77 - 138	43.2	86	2	12
78-93-3	2-Butanone	0.00	0.235	50.0	72.5	**145***	61 - 127	71.6	**143***	1	13
110-75-8	2-Chloroethylvinyl ether	0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	44.3	89	81 - 121	46.3	93	4	10
591-78-6	2-Hexanone	0.00	0.302	50.0	77.9	**156***	58 - 125	78.4	**157***	0.6	14
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	44.8	90	84 - 120	43.8	88	2	10
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	44.3	89	83 - 125	44.0	88	0.7	9
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	80.2	**160***	62 - 125	78.5	**157***	2	13
67-64-1	Acetone	0.00	0.322	50.0	52.5	105	59 - 134	54.4	109	4	14
107-02-8	Acrolein	0.00	2.49	250	426	**170***	33 - 157	420	**168***	1	21
107-13-1	Acrylonitrile	0.00	1.62	250	671	**268***	62 - 124	658	**263***	2	13
71-43-2	Benzene	0.00	0.049	50.0	50.2	100	83 - 124	46.0	92	9	11
108-86-1	Bromobenzene	0.00	0.095	50.0	47.4	95	83 - 115	45.1	90	5	10
74-97-5	Bromochloromethane	0.00	0.238	50.0	47.1	94	78 - 112	44.1	88	7	10
75-27-4	Bromodichloromethane	0.00	0.071	50.0	49.5	99	76 - 116	48.4	97	2	10
75-25-2	Bromoform	0.00	0.278	50.0	49.2	98	68 - 128	49.7	99	1	11

GC/MS Volatiles Quality Control Summary

Analytical Batch 451920		**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch N/A		**GCAL ID**	21103050401			21103050403			21103050404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/07/2011 10:29			03/07/2011 13:57			03/07/2011 14:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
74-83-9	Bromomethane	0.00		0.276	50.0	41.9	84	55 - 151	50.7	101	19	21
75-15-0	Carbon disulfide	0.00		0.190	50.0	44.4	89	67 - 147	46.8	94	5	12
56-23-5	Carbon tetrachloride	0.00		0.056	50.0	51.5	103	74 - 139	46.2	92	11	13
108-90-7	Chlorobenzene	0.00		0.055	50.0	42.1	**84***	87 - 115	40.9	**82***	3	9
75-00-3	Chloroethane	0.00		0.279	50.0	51.6	103	54 - 166	49.0	98	5	20
67-66-3	Chloroform	0.00		0.062	50.0	48.9	98	85 - 123	44.1	88	10	10
74-87-3	Chloromethane	0.00		0.076	50.0	55.1	110	55 - 173	59.3	119	7	22
124-48-1	Dibromochloromethane	0.00		0.133	50.0	47.6	95	74 - 116	46.2	92	3	11
74-95-3	Dibromomethane	0.00		0.197	50.0	52.1	104	81 - 116	48.9	98	6	10
75-71-8	Dichlorodifluoromethane	0.00		0.088	50.0	50.2	100	34 - 158	46.9	94	7	22
100-41-4	Ethylbenzene	0.00		0.180	50.0	41.7	**83***	87 - 118	41.3	**83***	1	10
87-68-3	Hexachlorobutadiene	0.00		0.347	50.0	44.6	89	71 - 133	45.7	91	2	12
98-82-8	Isopropylbenzene (Cumene)	0.00		0.058	50.0	39.4	**79***	87 - 131	38.9	**78***	1	10
74-88-4	Methyl iodide	0.00		0.097	50.0	32.8	**66***	72 - 125	28.5	**57***	**14***	11
75-09-2	Methylene chloride	0.00		0.102	50.0	49.8	100	69 - 125	49.4	99	0.8	11
91-20-3	Naphthalene	0.00		0.175	50.0	49.0	98	59 - 125	51.3	103	5	15
100-42-5	Styrene	0.00		0.058	50.0	38.0	**76***	78 - 118	37.5	**75***	1	11
127-18-4	Tetrachloroethene	0.00		0.210	50.0	41.4	83	80 - 131	39.4	**79***	5	12
108-88-3	Toluene	0.00		0.078	50.0	44.3	89	86 - 116	43.0	86	3	10
79-01-6	Trichloroethene	0.00		0.094	50.0	45.0	90	85 - 124	43.1	86	4	10
75-69-4	Trichlorofluoromethane	0.00		0.094	50.0	53.5	107	66 - 156	50.6	101	6	15
76-13-1	Trichlorotrifluoroethane	0.00		0.141	50.0	49.0	98	74 - 139	47.5	95	3	13
108-05-4	Vinyl acetate	0.00		0.197	50.0	71.9	144	38 - 159	69.6	139	3	11
75-01-4	Vinyl chloride	0.00		0.104	50.0	52.7	105	57 - 153	52.0	104	1	22
156-59-2	cis-1,2-Dichloroethene	0.00		0.104	50.0	52.7	105	81 - 114	48.8	98	8	10
10061-01-5	cis-1,3-Dichloropropene	0.00		0.105	50.0	49.0	98	83 - 119	47.0	94	4	10
136777-61-2	m,p-Xylene	0.00		0.099	100	81.7	**82***	83 - 121	79.4	**79***	3	10
104-51-8	n-Butylbenzene	0.00		0.068	50.0	46.7	93	84 - 124	46.7	93	0	10
110-54-3	n-Hexane	0.00		0.126	50.0	45.0	90	71 - 134	42.0	84	7	11
103-65-1	n-Propylbenzene	0.00		0.069	50.0	45.2	90	86 - 125	43.3	87	4	10
95-47-6	o-Xylene	0.00		0.077	50.0	42.5	85	83 - 121	41.0	**82***	4	10
135-98-8	sec-Butylbenzene	0.00		0.088	50.0	44.8	90	86 - 127	44.0	88	2	10
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00		0.084	50.0	52.0	104	75 - 116	52.1	104	0.2	10

GC/MS Volatiles Quality Control Summary

Analytical Batch	451920	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch	N/A	**GCAL ID**	21103050401			21103050403			21103050404		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/07/2011 10:29			03/07/2011 13:57			03/07/2011 14:20		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
98-06-6	tert-Butylbenzene		0.00	0.058	50.0	45.1	90	83 - 126	45.0	90	0.2	10
156-60-5	trans-1,2-Dichloroethene		0.00	0.096	50.0	50.6	101	82 - 126	49.1	98	3	10
10061-02-6	trans-1,3-Dichloropropene		0.00	0.068	50.0	45.7	91	87 - 123	44.2	88	3	10
110-57-6	trans-1,4-Dichloro-2-butene		0.00	0.429	50.0	65.6	131	51 - 137	64.9	130	1	24
Surrogate												
460-00-4	4-Bromofluorobenzene		43.9	88	50	44	88	84 - 120	45.1	90		
1868-53-7	Dibromofluoromethane		49.6	99	50	51.9	104	87 - 116	52	104		
2037-26-5	Toluene d8		50	100	50	46.8	94	86 - 112	47	94		
17060-07-0	1,2-Dichloroethane-d4		52.4	105	50	55.7	111	76 - 127	52.8	106		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452114	**Client ID**	MB451977			LCS451977			LCSD451977		
Prep Batch	451977	**GCAL ID**	926918			926919			926920		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/08/2011 12:50			03/08/2011 12:50			03/08/2011 12:50		
		Analytical Date	03/09/2011 12:11			03/09/2011 12:25			03/09/2011 14:24		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.303U	0.303									
120-12-7	Anthracene	0.316U	0.316									
56-55-3	Benzo(a)anthracene	0.316U	0.316									
92-87-5	Benzidine	3.92U	3.92									
205-99-2	Benzo(b)fluoranthene	0.217U	0.217									
207-08-9	Benzo(k)fluoranthene	0.236U	0.236									
191-24-2	Benzo(g,h,i)perylene	0.215U	0.215									
50-32-8	Benzo(a)pyrene	0.125U	0.125									
65-85-0	Benzoic acid	0.910U	0.910									
85-68-7	Butyl benzyl phthalate	0.165U	0.165									
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	0.290									
111-44-4	Bis(2-Chloroethyl)ether	0.288U	0.288									
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	0.257									
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	0.191									
101-55-3	4-Bromophenyl phenyl ether	0.337U	0.337									
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	0.268									
218-01-9	Chrysene	0.433U	0.433									
53-70-3	Dibenz(a,h)anthracene	0.217U	0.217									
132-64-9	Dibenzofuran	0.227U	0.227									
95-50-1	1,2-Dichlorobenzene	0.259U	0.259									
541-73-1	1,3-Dichlorobenzene	0.274U	0.274									
91-94-1	3,3'-Dichlorobenzidine	0.297U	0.297									
120-83-2	2,4-Dichlorophenol	0.217U	0.217									
84-66-2	Diethyl phthalate	0.303U	0.303									
105-67-9	2,4-Dimethylphenol	0.694U	0.694									
131-11-3	Dimethyl phthalate	0.255U	0.255									
117-84-0	Di-n-octyl phthalate	0.167U	0.167									
51-28-5	2,4-Dinitrophenol	2.60U	2.60									
606-20-2	2,6-Dinitrotoluene	0.352U	0.352									
206-44-0	Fluoranthene	0.267U	0.267									
86-73-7	Fluorene	0.288U	0.288									
118-74-1	Hexachlorobenzene	0.249U	0.249									

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452114	**Client ID**	MB451977			LCS451977			LCSD451977		
Prep Batch	451977	**GCAL ID**	926918			926919			926920		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/08/2011 12:50			03/08/2011 12:50			03/08/2011 12:50		
		Analytical Date	03/09/2011 12:11			03/09/2011 12:25			03/09/2011 14:24		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192									
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174									
67-72-1	Hexachloroethane	0.299U	0.299									
78-59-1	Isophorone	0.380U	0.380									
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157									
91-57-6	2-Methylnaphthalene	0.255U	0.255									
95-48-7	o-Cresol	0.329U	0.329									
91-20-3	Naphthalene	0.293U	0.293									
98-95-3	Nitrobenzene	0.329U	0.329									
88-75-5	2-Nitrophenol	0.357U	0.357									
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364									
85-01-8	Phenanthrene	0.304U	0.304									
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317									
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275									
100-51-6	Benzyl alcohol	0.355U	0.355									
99-09-2	3-Nitroaniline	0.226U	0.226									
100-01-6	4-Nitroaniline	0.221U	0.221									
84-74-2	Di-n-butyl phthalate	0.189U	0.189									
88-74-4	2-Nitroaniline	0.198U	0.198									
91-58-7	2-Chloronaphthalene	0.221U	0.221									
106-47-8	4-Chloroaniline	0.463U	0.463									
1319-77-3MP	m,p-Cresol	0.352U	0.352									
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98									
108-95-2	Phenol	0.150U	0.150		100	29.1	29	13 - 54	28.8	29	1	30
95-57-8	2-Chlorophenol	0.276U	0.276		100	77.9	78	44 - 103	75.2	75	4	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255		100	78.5	79	40 - 100	74.4	74	5	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304		100	92.7	93	51 - 104	85.3	85	8	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234		100	80.0	80	45 - 104	76.5	77	4	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234		100	87.4	87	53 - 105	81.9	82	6	30
83-32-9	Acenaphthene	0.268U	0.268		100	90.2	90	58 - 106	85.8	86	5	30
100-02-7	4-Nitrophenol	1.83U	1.83		100	27.9	28	13 - 55	25.3	25	10	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263		100	97.6	98	60 - 109	90.5	91	8	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452114	**Client ID**	MB451977			LCS451977			LCSD451977		
Prep Batch	451977	**GCAL ID**	926918			926919			926920		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/08/2011 12:50			03/08/2011 12:50			03/08/2011 12:50		
		Analytical Date	03/09/2011 12:11			03/09/2011 12:25			03/09/2011 14:24		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U		0.168	100	62.7	63	57 - 118	56.7	57	10	30
129-00-0	Pyrene	0.486U		0.486	100	81.0	81	60 - 113	88.6	89	9	30
Surrogate												
4165-60-0	Nitrobenzene-d5	35.3		71	50	42.5	85	52 - 120	44.6	89		
321-60-8	2-Fluorobiphenyl	32.4		65	50	39.7	79	16 - 128	39.8	80		
1718-51-0	Terphenyl-d14	33		66	50	40.3	81	43 - 138	44.8	90		
4165-62-2	Phenol-d5	21.4		21	100	28.8	29	10 - 120	30.6	31		
367-12-4	2-Fluorophenol	38		38	100	48.1	48	10 - 120	48.7	49		
118-79-6	2,4,6-Tribromophenol	70		70	100	90	90	20 - 120	87.8	88		

Analytical Batch	452114	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch	451977	**GCAL ID**	21103050401			21103050403			21103050404		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/08/2011 12:50			03/08/2011 12:50			03/08/2011 12:50		
		Analytical Date	03/09/2011 14:38			03/09/2011 14:54			03/09/2011 15:08		
		Matrix	Water			Water			Water		
SW-846 8270C Water		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00		0.234	100	73.4	73	45 - 104	69.7	70	5	28
106-46-7	1,4-Dichlorobenzene	0.00		0.255	100	72.1	72	40 - 100	65.5	66	10	28
121-14-2	2,4-Dinitrotoluene	0.00		0.263	100	95.4	95	60 - 109	95.6	96	0.2	20
95-57-8	2-Chlorophenol	0.00		0.276	100	81.8	82	44 - 103	82.4	82	0.7	29
59-50-7	4-Chloro-3-methylphenol	0.00		0.234	100	88.9	89	53 - 105	91.6	92	3	24
100-02-7	4-Nitrophenol	0.00		1.83	100	32.2	32	13 - 55	31.9	32	0.9	31
83-32-9	Acenaphthene	0.00		0.268	100	89.3	89	58 - 106	87.2	87	2	21
87-86-5	Pentachlorophenol	0.00		0.168	100	63.4	63	57 - 118	61.2	61	4	26
108-95-2	Phenol	0.00		0.150	100	46.3	46	13 - 54	46.3	46	0	34
129-00-0	Pyrene	0.00		0.486	100	86.9	87	60 - 113	105	105	19	20
621-64-7	n-Nitrosodi-n-propylamine	0.00		0.304	100	91.3	91	51 - 104	92.4	92	1	28
Surrogate												
4165-60-0	Nitrobenzene-d5	46.1		92	50	44.6	89	52 - 120	44.6	89		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452114	**Client ID**	AOCU-GW26	AOCU-GW26-MS	AOCU-GW26-MSD
Prep Batch	451977	**GCAL ID**	21103050401	21103050403	21103050404
Prep Method	3510C	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/08/2011 12:50	03/08/2011 12:50	03/08/2011 12:50
		Analytical Date	03/09/2011 14:38	03/09/2011 14:54	03/09/2011 15:08
		Matrix	Water	Water	Water

SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
321-60-8	2-Fluorobiphenyl	40.3	81	50	40.1	80	16 - 128	38.4	77		
1718-51-0	Terphenyl-d14	37.9	76	50	35.1	70	43 - 138	45.7	91		
4165-62-2	Phenol-d5	48.6	49	100	47.7	48	10 - 120	47.2	47		
367-12-4	2-Fluorophenol	59	59	100	61.6	62	10 - 120	59.3	59		
118-79-6	2,4,6-Tribromophenol	82	82	100	92.4	92	20 - 120	90.3	90		

General Chromatography Quality Control Summary

Analytical Batch	452105	**Client ID**	MB451975			LCS451975			LCSD451975		
Prep Batch	451975	**GCAL ID**	926908			926909			926910		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/08/2011 09:35			03/08/2011 09:35			03/08/2011 09:35		
		Analytical Date	03/08/2011 12:20			03/08/2011 14:45			03/08/2011 12:55		
		Matrix	Water			Water			Water		
SW-846 8015B			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	978	98	50 - 150	934	93	5	40
Surrogate												
84-15-1	o-Terphenyl		47.2	94	50	44.2	88	57 - 115	46.9	94		

Analytical Batch	452105	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch	451975	**GCAL ID**	21103050401			21103050403			21103050404		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/08/2011 09:35			03/08/2011 09:35			03/08/2011 09:35		
		Analytical Date	03/08/2011 13:49			03/08/2011 14:06			03/08/2011 14:27		
		Matrix	Water			Water			Water		
Total Hydrocarbons Diesel Wate			**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics		26.3	44.2	1000	906	88	50 - 150	928	90	2	30
Surrogate												
84-15-1	o-Terphenyl		46.6	93	50	49.4	99	57 - 115	47.4	95		

General Chromatography Quality Control Summary

Analytical Batch 452172	**Client ID**	MB452172			LCS452172		
Prep Batch N/A	**GCAL ID**	928016			928017		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/10/2011 23:22			03/10/2011 22:32		
	Matrix	Water			Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	494	99	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	26.1	87	30	28.9	96	49 - 136

Analytical Batch 452172	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD				
Prep Batch N/A	**GCAL ID**	21103050401			21103050403			21103050404				
	Sample Type	SAMPLE			MS			MSD				
	Analytical Date	03/11/2011 00:10			03/11/2011 11:12			03/11/2011 11:36				
	Matrix	Water			Water			Water				
SW-846 8015B Modified Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
8006-61-9	Gasoline Range Organics	0.00	13.0	500	515	103	67 - 171	438	88	16		31
Surrogate												
106-39-8	Bromochlorobenzene	25.4	85	30	28.9	96	49 - 136	29.6	99			

General Chromatography Quality Control Summary

Analytical Batch	452106	**Client ID**	MB451976			LCS451976			LCSD451976		
Prep Batch	451976	**GCAL ID**	926915			926916			926917		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/08/2011 09:33			03/08/2011 09:33			03/08/2011 09:33		
		Analytical Date	03/08/2011 12:20			03/08/2011 13:13			03/08/2011 13:31		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1510	75	50 - 150	1680	84	11	40
Surrogate												
84-15-1	o-Terphenyl		44.3	89	50	46.5	93	57 - 115	46	92		

Analytical Batch	452106	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD		
Prep Batch	451976	**GCAL ID**	21103050401			21103050403			21103050404		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/08/2011 09:33			03/08/2011 09:33			03/08/2011 09:33		
		Analytical Date	03/08/2011 13:49			03/08/2011 15:03			03/08/2011 15:56		
		Matrix	Water			Water			Water		
Total Hydrocarbons Oil Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		18.4	45.7	2000	1590	78	50 - 150	1660	82	4	30
Surrogate												
84-15-1	o-Terphenyl		43.8	88	50	46.8	94	57 - 115	46.6	93		

Inorganics Quality Control Summary

Analytical Batch	452103	**Client ID**	AOCU-GW26-M		AOCU-GW26-M-MS			AOCU-GW26-M-MSD			
Prep Batch	451925	**GCAL ID**	21103050420		21103050421			21103050422			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	03/07/2011 11:00		03/07/2011 11:00			03/07/2011 11:00			
	Dissolved	**Analytical Date**	03/09/2011 14:49		03/09/2011 14:51			03/09/2011 14:53			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.00016	0.00500	0.00331	**66***	75 - 125	0.00331	**66***	0	10

Analytical Batch	452103	**Client ID**	AOCU-GW20-M		927075MS			927075MSD			
Prep Batch	452016	**GCAL ID**	21103050429		927159			927160			
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD			
	7470A	**Prep Date**	03/08/2011 11:40		03/08/2011 11:40			03/08/2011 11:40			
		Analytical Date	03/09/2011 14:56		03/09/2011 14:57			03/09/2011 14:59			
		Matrix	Water		Water			Water			
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.00000	0.00016	0.00500	0.00245	**49***	75 - 125	0.00242	**48***	1	10

Analytical Batch	452210	**Client ID**	MB451925		LCS451925		
Prep Batch	451925	**GCAL ID**	926780		926781		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7470A	**Prep Date**	03/07/2011 11:00		03/07/2011 11:00		
		Analytical Date	03/09/2011 13:32		03/10/2011 14:18		
		Matrix	Water		Water		
SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00514	103	88 - 111

Inorganics Quality Control Summary

Analytical Batch	452210	**Client ID**	MB452016	LCS452016
Prep Batch	452016	**GCAL ID**	927157	927158
Prep Method	SW-846 7470A	**Sample Type**	Method Blank	LCS
		Prep Date	03/08/2011 11:40	03/08/2011 11:40
		Analytical Date	03/09/2011 13:58	03/10/2011 14:19
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.00009B	0.000081	0.00500	0.00500	100	88 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB452012	LCS452012
Prep Batch	452012	**GCAL ID**	927145	927146
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/09/2011 00:33	03/09/2011 00:41
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.65	93	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.46	92	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.47	95	88 - 109
7440-39-3	Barium	0.00062B	0.00011	0.50	0.46	93	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.45	90	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.46	92	88 - 111
7440-70-2	Calcium	0.026U	0.026	5.00	4.60	92	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.45	91	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.46	92	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.43	87	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.58	92	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.47	94	89 - 109
7439-95-4	Magnesium	0.018B	0.014	5.00	4.42	**88***	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.46	91	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.46	92	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.59	96	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.47	94	90 - 110
7440-22-4	Silver	0.00060U	0.00060	0.50	0.47	94	86 - 120
7440-23-5	Sodium	0.95B	0.051	20.0	19.4	97	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.47	95	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.45	**90***	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.45	90	84 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-SW03-M	AOCU-SW03-M-MS	AOCU-SW03-M-MSD
Prep Batch	452012	**GCAL ID**	21103080938	21103080940	21103080941
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/09/2011 00:47	03/09/2011 00:53	03/09/2011 01:00
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.12	0.22	5.00	4.77	93	83 - 119	4.59	89	4	25
7440-36-0	Antimony	0.028	0.020	0.50	0.55	104	81 - 124	0.53	101	3	25
7440-38-2	Arsenic	0.010	0.013	0.50	0.57	113	84 - 124	0.53	104	8	25
7440-39-3	Barium	0.0	0.00055	0.50	0.49	97	85 - 120	0.46	91	6	25
7440-41-7	Beryllium	0.00013	0.00057	0.50	0.50	99	79 - 121	0.47	95	5	25
7440-43-9	Cadmium	0.0	0.00055	0.50	0.48	95	82 - 119	0.45	90	6	25
7440-70-2	Calcium	842	0.13	5.00	880	**753***	48 - 153	856	**276***	3	25
7440-47-3	Chromium	0.0075	0.0017	0.50	0.48	94	73 - 135	0.45	89	6	25
7440-48-4	Cobalt	0.0	0.0020	0.50	0.48	97	82 - 119	0.46	92	5	25
7440-50-8	Copper	0.14	0.0069	0.50	0.63	98	82 - 129	0.61	94	3	25
7439-89-6	Iron	0.042	0.19	5.00	4.76	94	52 - 155	4.57	91	4	25
7439-92-1	Lead	0.0	0.0070	0.50	0.47	95	62 - 146	0.44	88	8	25
7439-95-4	Magnesium	1300	0.072	5.00	1470	**3400***	62 - 146	1420	**2540***	3	25
7439-96-5	Manganese	0.080	0.0062	0.50	0.54	92	79 - 121	0.53	90	1	25
7440-02-0	Nickel	0.047	0.0048	0.50	0.51	93	84 - 120	0.48	87	6	25
7440-09-7	Potassium	49.5	0.26	10.0	70.2	**206***	76 - 132	68.0	**185***	3	25
7782-49-2	Selenium	0.0	0.022	0.50	0.53	105	71 - 140	0.48	96	9	25
7440-22-4	Silver	0.0	0.0030	0.50	0.53	107	75 - 141	0.51	101	5	25
7440-28-0	Thallium	0.0	0.0088	0.50	0.45	90	90 - 116	0.40	**80***	13	25
7440-62-2	Vanadium	0.0	0.0041	0.50	0.33	**67***	85 - 120	0.34	**69***	3	25
7440-66-6	Zinc	0.059	0.014	0.50	0.53	94	60 - 137	0.50	88	5	25

Analytical Batch	452215	**Client ID**	MB451923	LCS451923
Prep Batch	451923	**GCAL ID**	926773	926774
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:41	03/10/2011 15:48
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.89	98	87 - 111

Inorganics Quality Control Summary

Analytical Batch	452215	**Client ID**	MB451923	LCS451923
Prep Batch	451923	**GCAL ID**	926773	926774
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:41	03/10/2011 15:48
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.48	96	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.49	98	88 - 109
7440-39-3	Barium	0.0013B	0.00011	0.50	0.49	97	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.48	96	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.48	97	88 - 111
7440-70-2	Calcium	0.048B	0.026	5.00	4.88	98	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.48	96	90 - 113
7440-48-4	Cobalt	0.00043B	0.00040	0.50	0.50	99	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.47	94	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.81	96	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.50	100	89 - 109
7439-95-4	Magnesium	0.024B	0.014	5.00	4.93	99	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.49	97	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.49	98	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.84	98	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.51	101	90 - 110
7440-22-4	Silver	0.00060U	0.00060	0.50	0.48	96	86 - 120
7440-23-5	Sodium	0.051U	0.051	20.0	19.2	96	90 - 117
7440-28-0	Thallium	0.0022B	0.0018	0.50	0.48	97	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.48	95	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.48	96	84 - 111

Analytical Batch	452215	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:55	03/10/2011 16:02	03/10/2011 16:09
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.0	0.44	5.00	5.05	101	83 - 119	4.54	91	11	25

Inorganics Quality Control Summary

Analytical Batch	452215	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 15:55	03/10/2011 16:02	03/10/2011 16:09
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-36-0	Antimony	0.053	0.040	0.50	0.57	103	81 - 124	0.58	106	2	25
7440-38-2	Arsenic	0.052	0.025	0.50	0.59	108	84 - 124	0.58	105	2	25
7440-39-3	Barium	0.0	0.0011	0.50	0.46	93	85 - 120	0.45	91	2	25
7440-41-7	Beryllium	0.0011	0.0011	0.50	0.49	98	79 - 121	0.47	94	4	25
7440-43-9	Cadmium	0.0	0.0011	0.50	0.46	92	82 - 119	0.45	90	3	25
7440-70-2	Calcium	994	0.26	5.00	1010	**411***	48 - 153	993	**-20***	2	25
7440-47-3	Chromium	0.023	0.0034	0.50	0.49	94	73 - 135	0.47	90	4	25
7440-48-4	Cobalt	0.0	0.0040	0.50	0.48	95	82 - 119	0.46	92	4	25
7440-50-8	Copper	0.029	0.014	0.50	0.56	105	82 - 129	0.54	102	3	25
7439-89-6	Iron	0.089	0.38	5.00	4.92	97	52 - 155	4.76	93	3	25
7439-92-1	Lead	0.0	0.014	0.50	0.38	76	62 - 146	0.36	72	5	25
7439-95-4	Magnesium	6120	0.14	5.00	6260	**2680***	62 - 146	6130	**240***	2	25
7439-96-5	Manganese	1.02	0.012	0.50	1.52	101	79 - 121	1.46	88	4	25
7440-02-0	Nickel	0.047	0.0096	0.50	0.51	92	84 - 120	0.49	89	3	25
7440-09-7	Potassium	164	0.53	10.0	176	116	76 - 132	171	**67***	3	25
7782-49-2	Selenium	0.010	0.043	0.50	0.54	106	71 - 140	0.50	97	8	25
7440-22-4	Silver	0.0	0.0060	0.50	0.47	95	75 - 141	0.46	91	4	25
7440-28-0	Thallium	0.0	0.018	0.50	0.40	**79***	90 - 116	0.40	**79***	0.01	25
7440-62-2	Vanadium	0.0	0.0082	0.50	0.26	**51***	85 - 120	0.25	**50***	3	25
7440-66-6	Zinc	0.0	0.027	0.50	0.31	62	60 - 137	0.31	62	0.05	25

Analytical Batch	452253	**Client ID**	AOCU-GW26-M	AOCU-GW26-M-MS	AOCU-GW26-M-MSD
Prep Batch	451923	**GCAL ID**	21103050420	21103050421	21103050422
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/07/2011 11:00	03/07/2011 11:00	03/07/2011 11:00
		Analytical Date	03/10/2011 19:39	03/10/2011 19:46	03/10/2011 19:53
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	27400	5.14	20.0	27600	**972***	70 - 203	27200	**-1000***	2	25

Inorganics Quality Control Summary

Analytical Batch	452270	**Client ID**	AOCU-SW03-M			AOCU-SW03-M-MS			AOCU-SW03-M-MSD		
Prep Batch	452012	**GCAL ID**	21103080938			21103080940			21103080941		
Prep Method	SW-846 3005	**Sample Type**	SAMPLE			MS			MSD		
	Dissolved	**Prep Date**	03/08/2011 11:15			03/08/2011 11:15			03/08/2011 11:15		
		Analytical Date	03/11/2011 11:54			03/11/2011 12:01			03/11/2011 12:08		
		Matrix	Water			Water			Water		
SW-846 6010B Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium		6510	2.57	20.0	7590	**5420***	70 - 203	7610	**5500***	0.2	25

Analytical Batch	452295	**Client ID**	MB452013			LCS452013		
Prep Batch	452013	**GCAL ID**	927147			927148		
Prep Method	SW-846 3005	**Sample Type**	Method Blank			LCS		
	Dissolved	**Prep Date**	03/08/2011 11:40			03/08/2011 11:40		
		Analytical Date	03/11/2011 16:39			03/11/2011 16:46		
		Matrix	Water			Water		
SW-846 6010B Dissolved			**Units**	mg/L	**Spike**	**Result**		**Control**
			Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum		0.044U	0.044	5.00	4.64	93	87 - 111
7440-36-0	Antimony		0.0040U	0.0040	0.50	0.44	88	88 - 108
7440-38-2	Arsenic		0.0039B	0.0025	0.50	0.46	92	88 - 109
7440-39-3	Barium		0.00094B	0.00011	0.50	0.47	93	92 - 112
7440-41-7	Beryllium		0.00011U	0.00011	0.50	0.46	92	89 - 113
7440-43-9	Cadmium		0.00011U	0.00011	0.50	0.46	93	88 - 111
7440-70-2	Calcium		0.028B	0.026	5.00	4.65	93	90 - 111
7440-47-3	Chromium		0.00034U	0.00034	0.50	0.46	92	90 - 113
7440-48-4	Cobalt		0.00065B	0.00040	0.50	0.45	91	89 - 111
7440-50-8	Copper		0.0014U	0.0014	0.50	0.45	91	86 - 112
7439-89-6	Iron		0.038U	0.038	5.00	4.59	92	89 - 116
7439-92-1	Lead		0.0014U	0.0014	0.50	0.46	92	89 - 109
7439-95-4	Magnesium		0.014U	0.014	5.00	4.64	93	92 - 113
7439-96-5	Manganese		0.0012U	0.0012	0.50	0.46	93	90 - 110
7440-02-0	Nickel		0.00096U	0.00096	0.50	0.46	92	89 - 111
7440-09-7	Potassium		0.077B	0.053	10.0	9.16	92	89 - 114
7782-49-2	Selenium		0.0043U	0.0043	0.50	0.46	93	90 - 110
7440-22-4	Silver		0.00060U	0.00060	0.50	0.46	92	86 - 120
7440-23-5	Sodium		0.051U	0.051	20.0	18.8	94	90 - 117
7440-28-0	Thallium		0.0051B	0.0018	0.50	0.45	90	88 - 108
7440-62-2	Vanadium		0.00082U	0.00082	0.50	0.46	91	91 - 111

Inorganics Quality Control Summary

Analytical Batch	452295	**Client ID**	MB452013	LCS452013
Prep Batch	452013	**GCAL ID**	927147	927148
Prep Method	SW-846 3005 Dissolved	**Sample Type**	Method Blank	LCS
		Prep Date	03/08/2011 11:40	03/08/2011 11:40
		Analytical Date	03/11/2011 16:39	03/11/2011 16:46
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.47	94	84 - 111

Analytical Batch	452295	**Client ID**	AOCU-GW24-M	927077MS	927077MSD
Prep Batch	452013	**GCAL ID**	21103050431	927149	927150
Prep Method	SW-846 3005 Dissolved	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/08/2011 11:40	03/08/2011 11:40	03/08/2011 11:40
		Analytical Date	03/11/2011 17:05	03/11/2011 17:13	03/11/2011 17:20
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.053	0.44	5.00	4.69	93	83 - 119	4.63	92	1	25
7440-36-0	Antimony	0.056	0.040	0.50	0.55	99	81 - 124	0.62	112	11	25
7440-38-2	Arsenic	0.098	0.025	0.50	0.59	99	84 - 124	0.57	95	4	25
7440-39-3	Barium	0.0	0.0011	0.50	0.46	91	85 - 120	0.47	94	3	25
7440-41-7	Beryllium	0.0	0.0011	0.50	0.47	94	79 - 121	0.48	97	3	25
7440-43-9	Cadmium	0.0	0.0011	0.50	0.45	90	82 - 119	0.52	103	14	25
7440-70-2	Calcium	860	0.26	5.00	874	**270***	48 - 153	924	**1290***	6	25
7440-47-3	Chromium	0.0044	0.0034	0.50	0.46	90	73 - 135	0.47	93	4	25
7440-48-4	Cobalt	0.0016	0.0040	0.50	0.46	91	82 - 119	0.48	96	5	25
7440-50-8	Copper	0.0	0.014	0.50	0.48	96	82 - 129	0.52	105	8	25
7439-89-6	Iron	0.044	0.38	5.00	4.75	94	52 - 155	4.58	91	4	25
7439-92-1	Lead	0.0	0.014	0.50	0.35	70	62 - 146	0.41	82	15	25
7439-95-4	Magnesium	6890	0.14	5.00	6900	**234***	62 - 146	7560	**13400***	9	25
7439-96-5	Manganese	0.34	0.012	0.50	0.80	90	79 - 121	0.83	98	5	25
7440-02-0	Nickel	0.046	0.0096	0.50	0.49	90	84 - 120	0.57	105	14	25
7440-09-7	Potassium	226	0.53	10.0	244	**188***	76 - 132	237	120	3	25
7782-49-2	Selenium	0.0	0.043	0.50	0.50	100	71 - 140	0.59	119	17	25
7440-22-4	Silver	0.0	0.0060	0.50	0.46	92	75 - 141	0.44	89	4	25
7440-28-0	Thallium	0.0082	0.018	0.50	0.44	**86***	90 - 116	0.39	**76***	12	25
7440-62-2	Vanadium	0.0	0.0082	0.50	0.10	**20***	85 - 120	0.14	**27***	**31***	25
7440-66-6	Zinc	0.0	0.027	0.50	0.24	**47***	60 - 137	0.25	**50***	5	25

Inorganics Quality Control Summary

Analytical Batch	452388	**Client ID**	AOCU-GW24-M	927077MS	927077MSD
Prep Batch	452013	**GCAL ID**	21103050431	927149	927150
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/08/2011 11:40	03/08/2011 11:40	03/08/2011 11:40
		Analytical Date	03/14/2011 14:22	03/14/2011 14:30	03/14/2011 14:38
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	31800	5.14	20.0	33100	**6280***	70 - 203	33500	**8380***	1	25

General Chemistry Quality Control Summary

Analytical Batch 451933	**Client ID**	MB451933			LCS451933		
Prep Batch N/A	**GCAL ID**	926821			926822		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/07/2011 13:15			03/07/2011 13:15		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	948	94.8	90 - 110

Analytical Batch 451933	**Client ID**	AOCU-GW26		AOCU-GW26 DUP		
Prep Batch N/A	**GCAL ID**	21103050401		21103050427		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/07/2011 13:15		03/07/2011 13:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	95000	500	97000	2.1	5

Analytical Batch 451933	**Client ID**	U43010B		926338DUP		
Prep Batch N/A	**GCAL ID**	21103041901		926823		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/07/2011 13:15		03/07/2011 13:15		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	2108	10.0	2110	0.28	5

General Chemistry Quality Control Summary

Analytical Batch 451878	**Client ID**	MB451878			LCS451878		
Prep Batch N/A	**GCAL ID**	926584			926585		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/05/2011 15:16			03/05/2011 15:18		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8	Nitrate	0.003U	0.003	0.500	0.509	102	89.5 -110.5

Analytical Batch 451878	**Client ID**	AOCU-GW26			AOCU-GW26-MS			AOCU-GW26-MSD			
Prep Batch N/A	**GCAL ID**	21103050401			21103050403			21103050404			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/05/2011 15:20			03/05/2011 15:21			03/05/2011 15:23			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	111	2.60	500	625	103	89.5 -110.5	626	103	0.08	25

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Project No: 8090006.02.010

COC Number(1):

LIMS Number: 030411-04

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW26	AOCU-GW26	03032011	1305	-	N	1	WG	10	X	X	X	X		X	X										4
Trip Blank		03032011	1304	-	TB	1	WQ	3	X														HA.253306		4
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/4/11	1400	1. Fedex		
2. Fedex			2. [signature]	3/5/11	0915
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.:

Airbill Number: 796831128701

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.6

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Project No: 8090006.02.010

COC Number(1): 030411-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOC4-GW26-MS	AOC4-GW26-MS	03032011	1305	-	MS	1	WG	10	X	X	X	X		X	X										3
AOC4-GW26-MSD	AOC4-GW26-MSD	03032011	1305	-	SD	1	WG	10	X	X	X	X		X	X										3
Trip Blank		03032011	1305	-	TB	1	WQ	3	X															HA-025011	3
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

3
4
5

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/4/11	1400	Fed Ex		
2.	Fed Ex			[signature]	03/5/11	0915
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.:

Airbill Number: 794449563282

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.3°

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030411-08

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW19	AOCU-GW19	04032011	0920	-	N	1	WG	10	X	X	X	X		X	X										8 6
Trip Blank		04032011	0920	-	TB	1	WQ	3	X														HA-0285050		8 7
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	3/4/11	1400	Fed ex		
2.	Fed ex			[illegible]		
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.:

Airbill Number: 794449361848

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.6

NATIONVIEW

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030411-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-GW20	AOCU-GW20	04032011	0945	-	N	1	WG	10	X	X	X	X		X	X										6	8
AOCU-GW22	AOCU-GW22	04032011	1045	-	N	1	WG	10	X	X	X	X		X	X										6	9
Trip Blank		04032011	0945	-	N	1	WG	3	X																6	10
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/14/11	1400	Fed Ex		
2.	Fed Ex			[signature]		
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 794493594899

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.3

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Project No: 8090006.02.010

COC Number(1): 030411-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-GW35	AOCU-GW35	03032011	1445	-	N	1	WG	10	X	X	X	X		X	X										1	11
AOCU-GW35-A	AOCU-GW35-A	03032011	1445	-	FD	1	WG	10	X	X	X	X		X	X										1	12
Trip Blank		03032011	1445	-	TB	1	WQ	3	X														HA-025611		1	13
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/4/11	1400	Fed Ex		
2.	Fed Ex			[signature]		
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 796831187398

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4.9°

NATIONVIEW

Nationview 4771 211030504 3/11/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030411-07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)								Quality Assurance Samples (6)				
AOCU-GW24	AOCU-GW24	04032011	1050	-	N	1	WG	10	X	X	X	X		X	X				7	14
AOCU-GW24-A	AOCU-GW24A	04032011	1050	-	FD	1	WG	10	X	X	X	X	JM ~~X~~	X	X				7	15
Trip Blank		04032011	1050	-	TB	1	WQ										HA-025611		7	16
				-																
				-																
				-																
				-																
				-																
				-																
				-																
				-																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Holloway	3/4/11	1400	1. Fed Ex		
2. Fed Ex			2. [illegible]		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 7968 3115 5598

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.6°

NATIONVIEW

Nationview 4771 211030504 3/11/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030411-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)													Quality Assurance Samples (6)				
AOCU-GW32	AOCU-GW32	03032011	1345	-	N	1	WG	10	X	X	X	X		X	X									2	17
AOCU-GW28	AOCU-GW28	03032011	1420	-	N	1	WG	10	X	X	X	X		X	X									2	18
Trip Blank		03032011	1345	-	TB	1	WQ	3	X													HA-0285050		2	19
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/4/11	1400	1. [signature]		
2. Fed up			2. [signature]		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FedEx Express Airbill Number: 7968 3110 6236

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.4°

NATIONVIEW/4711/210

Project No: 8090006.02.010

COC Number(1): 030411-0

LIMS Number:

Chain of Custody and Analytical Request

4.4

Facility/Base I.D.:	Holloman AFB, New Mexico
Project/Site Name:	AOC-U, RFI Investigation
Client Name:	USACE - Albuquerque District
Collected by:	D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number
								Sample Analysis Requested (5)													Quality Assurance Samples (6)		
AOCU-GW26-M	AOCU-GW26	03032011	1306	-	N	1	WG	1					X									20	
AOCU-GW26-MS	AOCU-GW26-MS	03032011	1306	-	MS	1	WG	1					X									21	
AOCU-GW26-MSD	AOCU-GW26-MSD	03032011	1306	-	SD	1	WG	1					X									22 - ~~23~~	
AOCU-GW28-M	AOCU-GW28	03032011	1421	-	N	1	WG	1					X									23	
AOCU-GW32-M	AOCU-GW32	03032011	1346	-	N	1	WG	1					X									24	
AOCU-GW35-M	AOCU-GW35	03032011	1446	-	N	1	WG	1					X									25	
AOCU-GW35-A	AOCU-GW35-A	03032011	1446	-	FD	1	WG	1					X									26	
AOCU-GW39 *	AOCU-GW39	03032011	1016	-	N	1	WG	1					X										
AOCU-GW43 *	AOCU-GW43	03032011	0956	-	N	1	WG	1					X										
AOCU-GW45 *	AOCU-GW45	03032011	0851	-	N	1	WG	1					X										
AOCU-GW41 *	AOCU-GW41	03032011	0901	-	N	1	WG	1					X										

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/4/11	1400	Fedex		
2.	Fedex	3-5-11	915	[signature]	3-5-11	915
3.						

Sample Delivery Details / Laboratory Receipt 4.4

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	FedEx Express	Airbill Number:	796831139271
Analytical Lab:	GCAL	Delivery Location:	Baton Rouge, LA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples are in a separate workbook

NATIONVIEW /4771/211030504/ 3-15-11

Project No: 8090006.02.010

COC Number(1): 030711-09

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW01	AOCU-GW01	05032011	1416	-	N	1	WG	1					X											9
AOCU-GW02	AOCU-GW02	05032011	1321	-	N	1	WG	1					X											9
AOCU-GW03	AOCU-GW03	05032011	1136	-	N	1	WG	1					X											9
AOCU-GW05	AOCU-GW05	05032011	1201	-	N	1	WG	1					X											9
AOCU-GW07	AOCU-GW07	05032011	1031	-	N	1	WG	1					X											9
AOCU-GW08	AOCU-GW08	05032011	1011	-	N	1	WG	1					X											9
AOCU-GW10	AOCU-GW10	04032011	1416	-	N	1	WG	1					X											9
AOCU-GW12	AOCU-GW12	04032011	1311	-	N	1	WG	1					X											9
AOCU-GW15	AOCU-GW15	04032011	1531	-	N	1	WG	1					X											9
AOCU-GW17	AOCU-GW17	04032011	1346	-	N	1	WG	1					X											9
AOCU-GW19-MX	AOCU-GW19	04032011	0921	-	N	1	WG	1					X										29	9

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J. Moore	3/7/11	1400			
2.	Felix	3-8-11	855	Am	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 42

Airbill Number: 7944 9060 6688

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* sample was' this workbook only

NATIONVIEW /4771/211030504/316-1

Project No: 8090006.02.010

COC Number(1): 030711-09

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW20-M*	AOCU-GW20	04032011	0946	-	N	1	WG	1					X										29	9
AOCU-GW22-M*	AOCU-GW22	04032011	1046	-	N	1	WG	1					X										30	9
AOCU-GW24-M*	AOCU-GW24	04032011	1051	-	N	1	WG	1					X										31	9
AOCU-GW24-A-M*	AOCU-GW24-A	04032011	1051	-	FD	1	WG	1					X										32	9
AOCU-SW01	AOCU-SW01	06032011	1041	-	N	1	WS	1					X											9
AOCU-SW02	AOCU-SW02	06032011	1001	-	N	1	WS	1					X											9
AOCU-SW03	AOCU-SW03	06032011	0851	-	N	1	WS	1					X											9
AOCU-SW03-A	AOCU-SW03-A	06032011	0851	-	FD	1	WS	1					X											9
AOCU-SW03-MS	AOCU-SW03-MS	06032011	0851	-	MS	1	WS	1					X											9
AOCU-SW03-MSD	AOCU-SW03-MSD	06032011	0851	-	SD	1	WS	1					X											9
				-			Jm	4																

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	3/7/11	1400			
2.	Fedex	3-8-11	855	[illegible]	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.: 4.2

Method of Shipment: FedEx Express Airbill Number:

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples are the wetlands on

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211030504

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Raborn, Michelle

Received Date/Time: 3/5/2011 9:15:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 9

Cooler tracking numbers(s): 7968 3115 5598 7968 3110 6236 7968 3113 9271 7944 5960 6658 7968 3112 8761 7944 9356 3287 7944 9361 8448 7944 9359 4854 7968 3118 7398

Cooler temperature(s): 5.6 5.3 5.6 5.3 4.9 5.6 5.4 4.4 4.2

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☐ N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 04/04/2011

GCAL Report 211030809

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Customer NationView LLC

Project AOC-U RFI Investigarion

CASE NARRATIVE

Client: NationView LLC **Report:** 211030809

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was resubmitted on 04/04/11. The data was revised to include estimated values in the report.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 452154, the MS/MSD exhibited recovery and RPD failures. The LCS/LCSD recoveries are acceptable. The MS/MSD recoveries for 2-Chloroethylvinyl ether are not applicable because this compound is not recovered in acidified samples.

In the SW-846 8260B analysis for analytical batch 452153 and 452190, the LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8015B analysis, the recovery for the surrogate, o-Terphenyl is above the upper control limit. No target compounds were detected in the sample; therefore the data is reportable for sample 21103080916 (AOCU-SW03).

METALS

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 21103080938 (AOCU-SW03), 21103080940 (AOCU-SW03-MS), 21103080941 (AOCU-SW03-MSD), 21103080926 (AOCU-GW01), 21103080927 (AOCU-GW02), 21103080928 (AOCU-GW03), 21103080929 (AOCU-GW05), 21103080930 (AOCU-GW07), 21103080931 (AOCU-GW08), 21103080932 (AOCU-GW10), 21103080933 (AOCU-GW12), 21103080934 (AOCU-GW15), 21103080935 (AOCU-GW17), 21103080936 (AOCU-SW01), 21103080937 (AOCU-SW02) and 21103080939 (AOCU-SW03-A). This is reflected in the elevated reporting limits.

In the SM 2340 B analysis, a chemical or physical interference necessitated a dilution for samples 21103080916 (AOCU-SW03), 21103080921 (AOCU-SW03-DUP), 21103080917 (AOCU-SW03-A), 21103080923 (AOCU-SW01) and 21103080924 (AOCU-SW02). This is reflected in the elevated reporting limits.

In the SW-846 6010B Dissolved analysis for prep batch 452012, the MS and/or MSD recovery is outside the control limits for Thallium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. The MS/MSD recoveries are not applicable for Calcium, Magnesium, Potassium and Sodium because the sample concentration is greater than four times the spike concentration. Magnesium and Vanadium were recovered outside of the established control limits for the LCS and/or LCSD. The MS and/or MSD recovery is outside the control limits for Vanadium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the SW-846 7470A Dissolved analysis for prep batch 452014, the MS and/or MSD recovery is outside the control limits for Mercury. The LCS recovery is within the control limits. This indicates the analysis is in

control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21103080905 (AOCU-GW12), 21103080907 (AOCU-GW05), 21103080914 (AOCU-GW02), 21103080916 (AOCU-SW03), 21103080919 (AOCU-SW03-MS), 21103080920 (AOCU-SW03-MSD), 21103080917 (AOCU-SW03-A) and 21103080923 (AOCU-SW01) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

In the SM 2540 C analysis, samples 21103080901 (AOCU-GW15), 21103080902 (AOCU-GW17), 21103080904 (AOCU-GW10), 21103080905 (AOCU-GW12), 21103080907 (AOCU-GW05), 21103080908 (AOCU-GW07), 21103080910 (AOCU-GW03), 21103080911 (AOCU-GW08), 21103080913 (AOCU-GW01), 21103080914 (AOCU-GW02), 21103080916 (AOCU-SW0321103080917 (AOCU-SW03-A), 21103080921 (AOCU-SW03-DUP), 21103080923 (AOCU-SW01) and 21103080924 (AOCU-SW02) had to be diluted prior to filtration in order not to exceed the maximum residue allowed by the method.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211030809

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	AOCU-GW15	Water	03/04/2011 15:30	03/08/2011 08:55
21103080902	AOCU-GW17	Water	03/04/2011 13:45	03/08/2011 08:55
21103080903	TRIP BLANK	Water	03/04/2011 13:45	03/08/2011 08:55
21103080904	AOCU-GW10	Water	03/04/2011 14:15	03/08/2011 08:55
21103080905	AOCU-GW12	Water	03/04/2011 13:10	03/08/2011 08:55
21103080906	TRIP BLANK	Water	03/04/2011 13:10	03/08/2011 08:55
21103080907	AOCU-GW05	Water	03/05/2011 12:00	03/08/2011 08:55
21103080908	AOCU-GW07	Water	03/05/2011 10:30	03/08/2011 08:55
21103080909	TRIP BLANK	Water	03/05/2011 10:30	03/08/2011 08:55
21103080910	AOCU-GW03	Water	03/05/2011 11:35	03/08/2011 08:55
21103080911	AOCU-GW08	Water	03/05/2011 10:10	03/08/2011 08:55
21103080912	TRIP BLANK	Water	03/05/2011 10:10	03/08/2011 08:55
21103080913	AOCU-GW01	Water	03/05/2011 14:15	03/08/2011 08:55
21103080914	AOCU-GW02	Water	03/05/2011 13:20	03/08/2011 08:55
21103080915	TRIP BLANK	Water	03/05/2011 13:20	03/08/2011 08:55
21103080916	AOCU-SW03	Water	03/06/2011 08:50	03/08/2011 08:55
21103080917	AOCU-SW03-A	Water	03/06/2011 08:50	03/08/2011 08:55
21103080918	TRIP BLANK	Water	03/06/2011 08:50	03/08/2011 08:55
21103080919	AOCU-SW03-MS	Water	03/06/2011 08:50	03/08/2011 08:55
21103080920	AOCU-SW03-MSD	Water	03/06/2011 08:50	03/08/2011 08:55
21103080921	AOCU-SW03-DUP	Water	03/06/2011 08:50	03/08/2011 08:55
21103080922	TRIP BLANK	Water	03/06/2011 08:50	03/08/2011 08:55
21103080923	AOCU-SW01	Water	03/06/2011 10:40	03/08/2011 08:55
21103080924	AOCU-SW02	Water	03/06/2011 10:00	03/08/2011 08:55
21103080925	TRIP BLANK	Water	03/06/2011 10:00	03/08/2011 08:55
21103080926	AOCU-GW01-M	Water	03/05/2011 14:16	03/08/2011 08:55
21103080927	AOCU-GW02-M	Water	03/05/2011 13:21	03/08/2011 08:55
21103080928	AOCU-GW03-M	Water	03/05/2011 11:36	03/08/2011 08:55
21103080929	AOCU-GW05-M	Water	03/05/2011 12:01	03/08/2011 08:55
21103080930	AOCU-GW07-M	Water	03/05/2011 10:31	03/08/2011 08:55
21103080931	AOCU-GW08-M	Water	03/05/2011 10:11	03/08/2011 08:55
21103080932	AOCU-GW10-M	Water	03/04/2011 14:16	03/08/2011 08:55
21103080933	AOCU-GW12-M	Water	03/04/2011 13:11	03/08/2011 08:55
21103080934	AOCU-GW15-M	Water	03/04/2011 15:31	03/08/2011 08:55
21103080935	AOCU-GW17-M	Water	03/04/2011 13:46	03/08/2011 08:55
21103080936	AOCU-SW01-M	Water	03/06/2011 10:41	03/08/2011 08:55
21103080937	AOCU-SW02-M	Water	03/06/2011 10:01	03/08/2011 08:55
21103080938	AOCU-SW03-M	Water	03/06/2011 08:51	03/08/2011 08:55
21103080939	AOCU-SW03-A-M	Water	03/06/2011 08:51	03/08/2011 08:55
21103080940	AOCU-SW03-M-MS	Water	03/06/2011 08:51	03/08/2011 08:55
21103080941	AOCU-SW03-M-MSD	Water	03/06/2011 08:51	03/08/2011 08:55

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	**AOCU-GW15**	Water	03/04/2011 15:30	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:06	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	**AOCU-GW15**	Water	03/04/2011 15:30	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:06	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	48.2	ug/L	96	87 - 116
2037-26-5	Toluene d8	50	51.1	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:06	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	**AOCU-GW15**	Water	03/04/2011 15:30	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:00	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	**AOCU-GW15**	Water	03/04/2011 15:30	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:00	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.4	ug/L	91	52 - 120
321-60-8	2-Fluorobiphenyl	50	41.7	ug/L	83	16 - 128
1718-51-0	Terphenyl-d14	50	40	ug/L	80	43 - 138
4165-62-2	Phenol-d5	100	50.1	ug/L	50	10 - 120
367-12-4	2-Fluorophenol	100	57.5	ug/L	58	10 - 120
118-79-6	2,4,6-Tribromophenol	100	108	ug/L	108	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 17:52	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.5	ug/L	91	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/13/2011 22:14	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.9	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080901	**AOCU-GW15**	Water	03/04/2011 15:30	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 17:52	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.7	ug/L	85	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**54000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:37	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.014**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080902	**AOCU-GW17**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:28	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**14.0J**	**25**	**0.322**	**ug/L**
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080902	**AOCU-GW17**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:28	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	51.7	ug/L	103	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:28	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080902	**AOCU-GW17**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:15	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080902	**AOCU-GW17**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:15	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.5	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	36.9	ug/L	74	16 - 128
1718-51-0	Terphenyl-d14	50	27.9	ug/L	56	43 - 138
4165-62-2	Phenol-d5	100	70.6	ug/L	71	10 - 120
367-12-4	2-Fluorophenol	100	72.7	ug/L	73	10 - 120
118-79-6	2,4,6-Tribromophenol	100	103	ug/L	103	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 18:10	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**73.1J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	32.2	ug/L	64	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/13/2011 22:38	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	22.5	ug/L	75	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080902	**AOCU-GW17**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 18:10	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**53.2J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	30.2	ug/L	60	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**194000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:35	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.248**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080903	**TRIP BLANK**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:50	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080903	**TRIP BLANK**	Water	03/04/2011 13:45	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:50	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	47.5	ug/L	95	87 - 116
2037-26-5	Toluene d8	50	51.1	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080904	**AOCU-GW10**	Water	03/04/2011 14:15	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:13	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080904	**AOCU-GW10**	Water	03/04/2011 14:15	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:13	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.9	ug/L	94	84 - 120
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	52.4	ug/L	105	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	46.7	ug/L	93	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:13	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080904	**AOCU-GW10**	Water	03/04/2011 14:15	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:30	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080904	**AOCU-GW10**	Water	03/04/2011 14:15	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:30	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.8	ug/L	90	52 - 120
321-60-8	2-Fluorobiphenyl	50	36.2	ug/L	72	16 - 128
1718-51-0	Terphenyl-d14	50	32	ug/L	64	43 - 138
4165-62-2	Phenol-d5	100	52.4	ug/L	52	10 - 120
367-12-4	2-Fluorophenol	100	58.8	ug/L	59	10 - 120
118-79-6	2,4,6-Tribromophenol	100	103	ug/L	103	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 18:28	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**76.3J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.4	ug/L	85	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/13/2011 23:02	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.6	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080904	**AOCU-GW10**	Water	03/04/2011 14:15	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 18:28	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.8	ug/L	80	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**157000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:36	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.065**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080905	**AOCU-GW12**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:35	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080905	**AOCU-GW12**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:35	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.6	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	87 - 116
2037-26-5	Toluene d8	50	51.1	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:35	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080905	**AOCU-GW12**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:48	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080905	**AOCU-GW12**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 18:48	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.1	ug/L	82	52 - 120
321-60-8	2-Fluorobiphenyl	50	34.9	ug/L	70	16 - 128
1718-51-0	Terphenyl-d14	50	39.1	ug/L	78	43 - 138
4165-62-2	Phenol-d5	100	48	ug/L	48	10 - 120
367-12-4	2-Fluorophenol	100	54.9	ug/L	55	10 - 120
118-79-6	2,4,6-Tribromophenol	100	93.3	ug/L	93	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 18:46	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	49.9	ug/L	100	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/13/2011 23:26	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.4	ug/L	85	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080905	**AOCU-GW12**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 18:46	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.9	ug/L	94	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**114000**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 11:31	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**16.6**	**0.500**	**0.130**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080906	**TRIP BLANK**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:57	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080906	**TRIP BLANK**	Water	03/04/2011 13:10	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:57	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.9	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.4	ug/L	97	87 - 116
2037-26-5	Toluene d8	50	49.7	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080907	**AOCU-GW05**	Water	03/05/2011 12:00	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 20:46	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080907	**AOCU-GW05**	Water	03/05/2011 12:00	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 20:46	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	52.2	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.5	ug/L	97	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 05:19	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080907	**AOCU-GW05**	Water	03/05/2011 12:00	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:03	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080907	**AOCU-GW05**	Water	03/05/2011 12:00	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:03	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43	ug/L	86	52 - 120
321-60-8	2-Fluorobiphenyl	50	36.6	ug/L	73	16 - 128
1718-51-0	Terphenyl-d14	50	34.2	ug/L	68	43 - 138
4165-62-2	Phenol-d5	100	53.4	ug/L	53	10 - 120
367-12-4	2-Fluorophenol	100	59.5	ug/L	60	10 - 120
118-79-6	2,4,6-Tribromophenol	100	106	ug/L	106	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 19:04	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**151**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/13/2011 23:51	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	27.3	ug/L	91	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080907	**AOCU-GW05**	Water	03/05/2011 12:00	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 19:04	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.5	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**137000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	03/08/2011 12:01	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.10**	**0.020**	**0.005**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080908	**AOCU-GW07**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 05:42	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080908	**AOCU-GW07**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 05:42	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	48.8	ug/L	98	87 - 116
2037-26-5	Toluene d8	50	52.1	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 05:42	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080908	**AOCU-GW07**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:18	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080908	**AOCU-GW07**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:18	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.9	ug/L	84	52 - 120
321-60-8	2-Fluorobiphenyl	50	33.9	ug/L	68	16 - 128
1718-51-0	Terphenyl-d14	50	35.1	ug/L	70	43 - 138
4165-62-2	Phenol-d5	100	58.2	ug/L	58	10 - 120
367-12-4	2-Fluorophenol	100	60.5	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	100	101	ug/L	101	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 19:57	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**190**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	34.9	ug/L	70	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 00:16	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26	ug/L	87	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080908	**AOCU-GW07**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 19:57	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	32.8	ug/L	66	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**243000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:40	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.102**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080909	**TRIP BLANK**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 06:04	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080909	**TRIP BLANK**	Water	03/05/2011 10:30	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 06:04	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.1	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	47	ug/L	94	87 - 116
2037-26-5	Toluene d8	50	50	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080910	**AOCU-GW03**	Water	03/05/2011 11:35	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 06:26	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080910	**AOCU-GW03**	Water	03/05/2011 11:35	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 06:26	CLH	452153

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.4	ug/L	93	84 - 120
1868-53-7	Dibromofluoromethane	50	46.3	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	51.2	ug/L	102	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.3	ug/L	103	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 06:26	CLH	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080910	**AOCU-GW03**	Water	03/05/2011 11:35	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:33	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080910	**AOCU-GW03**	Water	03/05/2011 11:35	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:33	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.4	ug/L	91	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.5	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	38.7	ug/L	77	43 - 138
4165-62-2	Phenol-d5	100	64.6	ug/L	65	10 - 120
367-12-4	2-Fluorophenol	100	68.1	ug/L	68	10 - 120
118-79-6	2,4,6-Tribromophenol	100	113	ug/L	113	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 20:15	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**382**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.2	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 00:40	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.7	ug/L	89	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080910	**AOCU-GW03**	Water	03/05/2011 11:35	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 20:15	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**161**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.7	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**215000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:44	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.107**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080911	**AOCU-GW08**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 19:37	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**8.25J**	**25**	**0.322**	**ug/L**
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080911	**AOCU-GW08**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 19:37	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	**Naphthalene**	**1.55J**	**5**	**0.175**	**ug/L**
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	49.7	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 19:37	BKR	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080911	**AOCU-GW08**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:48	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080911	**AOCU-GW08**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 19:48	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	44.5	ug/L	89	52 - 120
321-60-8	2-Fluorobiphenyl	50	36	ug/L	72	16 - 128
1718-51-0	Terphenyl-d14	50	38.1	ug/L	76	43 - 138
4165-62-2	Phenol-d5	100	65	ug/L	65	10 - 120
367-12-4	2-Fluorophenol	100	64.3	ug/L	64	10 - 120
118-79-6	2,4,6-Tribromophenol	100	109	ug/L	109	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 20:33	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**130**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	42.2	ug/L	84	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 01:04	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.5	ug/L	88	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080911	**AOCU-GW08**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 20:33	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	39.6	ug/L	79	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**234000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:39	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.102**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080912	**TRIP BLANK**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 13:11	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080912	**TRIP BLANK**	Water	03/05/2011 10:10	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 13:11	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	49.9	ug/L	100	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080913	**AOCU-GW01**	Water	03/05/2011 14:15	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:21	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080913	**AOCU-GW01**	Water	03/05/2011 14:15	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:21	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.3	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:21	JCK	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080913	**AOCU-GW01**	Water	03/05/2011 14:15	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:02	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080913	**AOCU-GW01**	Water	03/05/2011 14:15	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:02	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.3	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.8	ug/L	78	16 - 128
1718-51-0	Terphenyl-d14	50	38.9	ug/L	78	43 - 138
4165-62-2	Phenol-d5	100	40.6	ug/L	41	10 - 120
367-12-4	2-Fluorophenol	100	48.4	ug/L	48	10 - 120
118-79-6	2,4,6-Tribromophenol	100	99.3	ug/L	99	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 20:51	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.8	ug/L	94	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 01:28	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	27.6	ug/L	92	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080913	**AOCU-GW01**	Water	03/05/2011 14:15	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 20:51	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.9	ug/L	88	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**43800**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:47	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.005B**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080914	**AOCU-GW02**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:44	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080914	**AOCU-GW02**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:44	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	48.1	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.8	ug/L	106	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 02:44	JCK	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080914	**AOCU-GW02**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:17	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080914	**AOCU-GW02**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:17	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.6	ug/L	85	52 - 120
321-60-8	2-Fluorobiphenyl	50	35.6	ug/L	71	16 - 128
1718-51-0	Terphenyl-d14	50	37.9	ug/L	76	43 - 138
4165-62-2	Phenol-d5	100	56	ug/L	56	10 - 120
367-12-4	2-Fluorophenol	100	61	ug/L	61	10 - 120
118-79-6	2,4,6-Tribromophenol	100	94	ug/L	94	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 21:09	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46.6	ug/L	93	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 02:40	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	25.7	ug/L	86	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080914	**AOCU-GW02**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 21:09	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43.8	ug/L	88	57 - 115

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**165000**	**500**	**500**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/08/2011 12:02	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.37**	**0.100**	**0.026**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080915	**TRIP BLANK**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:07	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080915	**TRIP BLANK**	Water	03/05/2011 13:20	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:07	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	51.9	ug/L	104	87 - 116
2037-26-5	Toluene d8	50	48.6	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080916	**AOCU-SW03**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 00:50	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080916	**AOCU-SW03**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 00:50	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	47.6	ug/L	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.9	ug/L	104	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 00:50	JCK	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080916	**AOCU-SW03**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:32	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080916	**AOCU-SW03**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:32	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.1	ug/L	84	52 - 120
321-60-8	2-Fluorobiphenyl	50	36.4	ug/L	73	16 - 128
1718-51-0	Terphenyl-d14	50	40.6	ug/L	81	43 - 138
4165-62-2	Phenol-d5	100	35.4	ug/L	35	10 - 120
367-12-4	2-Fluorophenol	100	44.4	ug/L	44	10 - 120
118-79-6	2,4,6-Tribromophenol	100	90.8	ug/L	91	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 21:27	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	67.4	ug/L	**135***	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 03:04	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	27.8	ug/L	93	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080916	**AOCU-SW03**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 21:27	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	45.7U	125	45.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	63.3	ug/L	**127***	57 - 115

SM 2340B Hardness

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452017	SM 2340 B	2	03/11/2011 12:49	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**879**	**0.20**	**0.019**	**mg/L**
000-01-5	**Hardness**	**8030**	**0.66**	**0.24**	**mg/L**
7439-95-4	**Magnesium**	**1420**	**0.20**	**0.048**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**20400**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/08/2011 12:04	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.938**	**0.050**	**0.013**	**mg/L-N**

SM 4500 H + B/SW-846 9040A pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:30	DNM	452059

CAS#	Parameter	Result	RDL	MDL	Units
pH	**pH**	**7.66**	**1.00**	**1.00**	**pH unit**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080917	**AOCU-SW03-A**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:29	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080917	**AOCU-SW03-A**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:29	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.2	ug/L	96	84 - 120
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	49	ug/L	98	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.4	ug/L	105	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:29	JCK	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080917	**AOCU-SW03-A**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:47	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080917	**AOCU-SW03-A**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 20:47	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	45.4	ug/L	91	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.6	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	41.1	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	39.2	ug/L	39	10 - 120
367-12-4	2-Fluorophenol	100	48.9	ug/L	49	10 - 120
118-79-6	2,4,6-Tribromophenol	100	103	ug/L	103	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 21:45	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**50.8J**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	48	ug/L	96	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 03:32	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.7	ug/L	89	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080917	**AOCU-SW03-A**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 21:45	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**57.4J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45	ug/L	90	57 - 115

SM 2340B Hardness

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452017	SM 2340 B	2	03/11/2011 13:04	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**829**	**0.20**	**0.019**	**mg/L**
000-01-5	**Hardness**	**8070**	**0.66**	**0.24**	**mg/L**
7439-95-4	**Magnesium**	**1460**	**0.20**	**0.048**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**22000**	**100**	**100**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	03/08/2011 12:07	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.966**	**0.020**	**0.005**	**mg/L-N**

SM 4500 H + B/SW-846 9040A pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:30	DNM	452059

CAS#	Parameter	Result	RDL	MDL	Units
pH	**pH**	**7.74**	**1.00**	**1.00**	**pH unit**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080918	**TRIP BLANK**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:54	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080918	**TRIP BLANK**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 03:54	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	87 - 116
2037-26-5	Toluene d8	50	51.9	ug/L	104	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080919	**AOCU-SW03-MS**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 01:13	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	48.4	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	49.4	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.9	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	51.3	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	46.4	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	51.5	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	48.7	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.6	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	51.6	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	42.9	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	46.1	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	54.1	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	49.8	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	46.5	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	48.1	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	48.4	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	46.9	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	46.6	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	50.6	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	45.6	5	0.058	ug/L
544-10-5	1-Chlorohexane	41.4	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	50.1	5	0.112	ug/L
78-93-3	2-Butanone	49.3	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	47.7	5	0.090	ug/L
591-78-6	2-Hexanone	54.4	5	0.302	ug/L
106-43-4	4-Chlorotoluene	45.6	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	45.3	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	62.5	5	0.142	ug/L
67-64-1	Acetone	36.8	25	0.322	ug/L
107-02-8	Acrolein	240	25	2.49	ug/L
107-13-1	Acrylonitrile	257	25	1.62	ug/L
71-43-2	Benzene	47.7	5	0.049	ug/L
108-86-1	Bromobenzene	47.0	5	0.095	ug/L
74-97-5	Bromochloromethane	59.0	5	0.238	ug/L
75-27-4	Bromodichloromethane	48.2	5	0.071	ug/L
75-25-2	Bromoform	50.4	5	0.278	ug/L
74-83-9	Bromomethane	49.5	5	0.276	ug/L
75-15-0	Carbon disulfide	49.9	5	0.190	ug/L
56-23-5	Carbon tetrachloride	50.1	5	0.056	ug/L
108-90-7	Chlorobenzene	48.3	5	0.055	ug/L
75-00-3	Chloroethane	53.7	5	0.279	ug/L
67-66-3	Chloroform	53.2	5	0.062	ug/L
74-87-3	Chloromethane	45.8	5	0.076	ug/L
124-48-1	Dibromochloromethane	49.3	5	0.133	ug/L
74-95-3	Dibromomethane	47.5	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	48.7	5	0.088	ug/L
100-41-4	Ethylbenzene	47.0	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	43.9	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	46.7	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080919	**AOCU-SW03-MS**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 01:13	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**50.9**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**46.3**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**50.2**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**46.9**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**47.2**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**47.2**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**50.9**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**50.2**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**49.6**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**54.1**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**50.6**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**46.7**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**49.3**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**93.8**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**45.2**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**49.4**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**47.5**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**45.7**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**44.4**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**50.8**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**47.7**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**47.1**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**48.7**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**58.5**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.9	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	48.2	ug/L	96	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:01	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**68.2**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**64.2**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**103**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080919	**AOCU-SW03-MS**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:01	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**76.9**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**89.2**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**29.4**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**86.7**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**73.4**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**36.5**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**78.7**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080919	**AOCU-SW03-MS**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:01	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**86.7**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.8	ug/L	84	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.3	ug/L	79	16 - 128
1718-51-0	Terphenyl-d14	50	39.4	ug/L	79	43 - 138
4165-62-2	Phenol-d5	100	40	ug/L	40	10 - 120
367-12-4	2-Fluorophenol	100	48.5	ug/L	49	10 - 120
118-79-6	2,4,6-Tribromophenol	100	104	ug/L	104	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 22:38	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**954**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	49.2	ug/L	98	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 03:56	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**439**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	29.3	ug/L	98	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 22:02	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1510**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.2	ug/L	88	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080919	**AOCU-SW03-MS**	Water	03/06/2011 08:50	03/08/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/08/2011 12:05	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.68**	**0.050**	**0.013**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080920	**AOCU-SW03-MSD**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 01:35	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	46.4	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	44.7	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.1	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	48.0	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	47.8	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	48.9	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	48.3	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	51.0	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	54.3	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.3	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	44.4	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	59.7	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	48.8	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	48.1	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	49.8	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	47.8	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	45.7	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	46.0	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	49.8	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	46.4	5	0.058	ug/L
544-10-5	1-Chlorohexane	38.8	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	42.6	5	0.112	ug/L
78-93-3	2-Butanone	53.4	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	46.2	5	0.090	ug/L
591-78-6	2-Hexanone	56.0	5	0.302	ug/L
106-43-4	4-Chlorotoluene	45.0	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	44.3	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	66.2	5	0.142	ug/L
67-64-1	Acetone	41.6	25	0.322	ug/L
107-02-8	Acrolein	261	25	2.49	ug/L
107-13-1	Acrylonitrile	280	25	1.62	ug/L
71-43-2	Benzene	46.7	5	0.049	ug/L
108-86-1	Bromobenzene	45.7	5	0.095	ug/L
74-97-5	Bromochloromethane	51.0	5	0.238	ug/L
75-27-4	Bromodichloromethane	47.4	5	0.071	ug/L
75-25-2	Bromoform	52.2	5	0.278	ug/L
74-83-9	Bromomethane	50.3	5	0.276	ug/L
75-15-0	Carbon disulfide	49.5	5	0.190	ug/L
56-23-5	Carbon tetrachloride	46.1	5	0.056	ug/L
108-90-7	Chlorobenzene	47.3	5	0.055	ug/L
75-00-3	Chloroethane	50.4	5	0.279	ug/L
67-66-3	Chloroform	46.9	5	0.062	ug/L
74-87-3	Chloromethane	46.2	5	0.076	ug/L
124-48-1	Dibromochloromethane	48.3	5	0.133	ug/L
74-95-3	Dibromomethane	48.6	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	47.4	5	0.088	ug/L
100-41-4	Ethylbenzene	45.1	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	47.7	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	43.9	5	0.058	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080920	**AOCU-SW03-MSD**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 01:35	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
74-88-4	**Methyl iodide**	**49.5**	**5**	**0.097**	**ug/L**
75-09-2	**Methylene chloride**	**47.4**	**10**	**0.102**	**ug/L**
91-20-3	**Naphthalene**	**58.4**	**5**	**0.175**	**ug/L**
100-42-5	**Styrene**	**45.4**	**5**	**0.058**	**ug/L**
127-18-4	**Tetrachloroethene**	**43.6**	**5**	**0.210**	**ug/L**
108-88-3	**Toluene**	**43.4**	**5**	**0.078**	**ug/L**
79-01-6	**Trichloroethene**	**49.5**	**5**	**0.094**	**ug/L**
75-69-4	**Trichlorofluoromethane**	**48.8**	**5**	**0.094**	**ug/L**
76-13-1	**Trichlorotrifluoroethane**	**49.2**	**5**	**0.141**	**ug/L**
108-05-4	**Vinyl acetate**	**56.3**	**5**	**0.197**	**ug/L**
75-01-4	**Vinyl chloride**	**48.7**	**5**	**0.104**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**45.6**	**5**	**0.104**	**ug/L**
10061-01-5	**cis-1,3-Dichloropropene**	**48.3**	**5**	**0.105**	**ug/L**
136777-61-2	**m,p-Xylene**	**91.7**	**10**	**0.099**	**ug/L**
104-51-8	**n-Butylbenzene**	**45.7**	**5**	**0.068**	**ug/L**
110-54-3	**n-Hexane**	**50.3**	**5**	**0.126**	**ug/L**
103-65-1	**n-Propylbenzene**	**46.5**	**5**	**0.069**	**ug/L**
95-47-6	**o-Xylene**	**44.1**	**5**	**0.077**	**ug/L**
135-98-8	**sec-Butylbenzene**	**44.3**	**5**	**0.088**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**52.2**	**5**	**0.084**	**ug/L**
98-06-6	**tert-Butylbenzene**	**46.6**	**5**	**0.058**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**49.1**	**5**	**0.096**	**ug/L**
10061-02-6	**trans-1,3-Dichloropropene**	**46.3**	**5**	**0.068**	**ug/L**
110-57-6	**trans-1,4-Dichloro-2-butene**	**61.3**	**5**	**0.429**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	46.3	ug/L	93	87 - 116
2037-26-5	Toluene d8	50	48.3	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.8	ug/L	104	76 - 127

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:16	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**70.2**	**10.0**	**0.234**	**ug/L**
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	**1,4-Dichlorobenzene**	**66.5**	**10.0**	**0.255**	**ug/L**
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	**2,4-Dinitrotoluene**	**100**	**10.0**	**0.263**	**ug/L**
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080920	**AOCU-SW03-MSD**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:16	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
95-57-8	**2-Chlorophenol**	**77.3**	**10.0**	**0.276**	**ug/L**
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	**4-Chloro-3-methylphenol**	**90.4**	**10.0**	**0.234**	**ug/L**
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	**4-Nitrophenol**	**32.5**	**10.0**	**1.83**	**ug/L**
83-32-9	**Acenaphthene**	**86.1**	**10.0**	**0.268**	**ug/L**
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	**Pentachlorophenol**	**77.4**	**10.0**	**0.168**	**ug/L**
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	**Phenol**	**37.4**	**10.0**	**0.150**	**ug/L**
129-00-0	**Pyrene**	**77.5**	**10.0**	**0.486**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080920	**AOCU-SW03-MSD**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8270C Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:16	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	**n-Nitrosodi-n-propylamine**	**85.2**	**10.0**	**0.304**	**ug/L**
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	42.9	ug/L	86	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.8	ug/L	78	16 - 128
1718-51-0	Terphenyl-d14	50	35.4	ug/L	71	43 - 138
4165-62-2	Phenol-d5	100	40.9	ug/L	41	10 - 120
367-12-4	2-Fluorophenol	100	47.9	ug/L	48	10 - 120
118-79-6	2,4,6-Tribromophenol	100	100	ug/L	100	20 - 120

Total Hydrocarbons Diesel Wate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 23:31	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**830**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	46	ug/L	92	57 - 115

SW-846 8015B Modified Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 04:20	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**421**	**100**	**13.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	29	ug/L	97	49 - 136

Total Hydrocarbons Oil Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 22:20	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1600**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	44.4	ug/L	89	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080920	**AOCU-SW03-MSD**	Water	03/06/2011 08:50	03/08/2011 08:55

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	03/08/2011 12:06	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.66**	**0.050**	**0.013**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080921	**AOCU-SW03-DUP**	Water	03/06/2011 08:50	03/08/2011 08:55

SM 2340B Hardness

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 15:00	452017	SM 2340 B	2	03/11/2011 12:57	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**846**	**0.20**	**0.019**	**mg/L**
000-01-5	**Hardness**	**7620**	**0.66**	**0.24**	**mg/L**
7439-95-4	**Magnesium**	**1340**	**0.20**	**0.048**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**20800**	**100**	**100**	**mg/L**

SM 4500 H+B/SW-846 9040 pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:30	DNM	452059

CAS#	Parameter	Result	RDL	MDL	Units
pH	**pH**	**7.64**	**1.00**	**1.00**	**pH unit**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080922	**TRIP BLANK**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:16	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080922	**TRIP BLANK**	Water	03/06/2011 08:50	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:16	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	50.9	ug/L	102	87 - 116
2037-26-5	Toluene d8	50	48.4	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080923	**AOCU-SW01**	Water	03/06/2011 10:40	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:39	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080923	**AOCU-SW01**	Water	03/06/2011 10:40	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:39	JCK	452154

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	45.7	ug/L	91	87 - 116
2037-26-5	Toluene d8	50	49.3	ug/L	99	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 04:39	JCK	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080923	**AOCU-SW01**	Water	03/06/2011 10:40	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:31	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080923	**AOCU-SW01**	Water	03/06/2011 10:40	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:31	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.7	ug/L	87	52 - 120
321-60-8	2-Fluorobiphenyl	50	39.2	ug/L	78	16 - 128
1718-51-0	Terphenyl-d14	50	36.8	ug/L	74	43 - 138
4165-62-2	Phenol-d5	100	44.9	ug/L	45	10 - 120
367-12-4	2-Fluorophenol	100	52.2	ug/L	52	10 - 120
118-79-6	2,4,6-Tribromophenol	100	104	ug/L	104	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452067	3510C	1	03/11/2011 23:49	SMH	452370

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	51.9	ug/L	104	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 04:44	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	27.2	ug/L	91	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080923	**AOCU-SW01**	Water	03/06/2011 10:40	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 12:30	452068	3510C	1	03/11/2011 23:49	SMH	452371

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**50.5J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	48.7	ug/L	97	57 - 115

SM 2340B Hardness

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452017	SM 2340 B	5	03/11/2011 13:11	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**1150**	**0.50**	**0.047**	**mg/L**
000-01-5	**Hardness**	**15100**	**1.65**	**0.60**	**mg/L**
7439-95-4	**Magnesium**	**2980**	**0.50**	**0.12**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**50000**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	03/08/2011 12:09	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**6.59**	**0.100**	**0.026**	**mg/L-N**

SM 4500 H + B/SW-846 9040A pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:30	DNM	452059

CAS#	Parameter	Result	RDL	MDL	Units
pH	**pH**	**8.19**	**1.00**	**1.00**	**pH unit**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080924	**AOCU-SW02**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 21:08	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	**Acetone**	**5.38J**	**25**	**0.322**	**ug/L**
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080924	**AOCU-SW02**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 21:08	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	51.3	ug/L	103	87 - 116
2037-26-5	Toluene d8	50	48.7	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 21:08	BKR	452324

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl chloride ND	ND		ug/L
1476-11-5	cis 1,4-dichloro-2-butene ND	ND		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080924	**AOCU-SW02**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:46	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080924	**AOCU-SW02**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/11/2011 08:10	452066	3510C	1	03/14/2011 21:46	JEW	452408

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	46.1	ug/L	92	52 - 120
321-60-8	2-Fluorobiphenyl	50	40.5	ug/L	81	16 - 128
1718-51-0	Terphenyl-d14	50	29	ug/L	58	43 - 138
4165-62-2	Phenol-d5	100	53.1	ug/L	53	10 - 120
367-12-4	2-Fluorophenol	100	57.2	ug/L	57	10 - 120
118-79-6	2,4,6-Tribromophenol	100	112	ug/L	112	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/14/2011 16:00	452354	3510C	1	03/15/2011 11:16	SMH	452487

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**680**	**125**	**44.2**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	45.8	ug/L	92	57 - 115

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/14/2011 05:08	BMR	452334

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	26.9	ug/L	90	49 - 136

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080924	**AOCU-SW02**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/14/2011 16:00	452377	3510C	1	03/15/2011 11:16	SMH	452488

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**1150**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	43	ug/L	86	57 - 115

SM 2340B Hardness

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:40	452017	SM 2340 B	5	03/11/2011 13:18	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**969**	**0.50**	**0.047**	**mg/L**
000-01-5	**Hardness**	**14300**	**1.65**	**0.60**	**mg/L**
7439-95-4	**Magnesium**	**2880**	**0.50**	**0.12**	**mg/L**

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	03/08/2011 14:50	DJH	452044

CAS#	Parameter	Result	RDL	MDL	Units
WET-035	**Total Dissolved Solids(TDS)**	**57600**	**200**	**200**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 11:54	AEL	452015

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.628**	**0.010**	**0.003**	**mg/L-N**

SM 4500 H + B/SW-846 9040A pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/08/2011 16:30	DNM	452059

CAS#	Parameter	Result	RDL	MDL	Units
pH	**pH**	**8.30**	**1.00**	**1.00**	**pH unit**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080925	**TRIP BLANK**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 13:34	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.20U	5	1.20	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080925	**TRIP BLANK**	Water	03/06/2011 10:00	03/08/2011 08:55

SW-846 8260B Water

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	03/10/2011 13:34	BKR	452190

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.210U	5	0.210	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	84 - 120
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	87 - 116
2037-26-5	Toluene d8	50	48.3	ug/L	97	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080926	**AOCU-GW01-M**	Water	03/05/2011 14:16	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:08	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/10/2011 20:07	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.052B**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.024B**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.013B**	**0.050**	**0.00055**	**mg/L**
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1130**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.014B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.074**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2110**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.71**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.026B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**80.4**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/10/2011 23:19	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**11900**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080927	**AOCU-GW02-M**	Water	03/05/2011 13:21	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:09	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/10/2011 20:14	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.061B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**776**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.018B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**8220**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.24**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.070B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**627**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/10/2011 23:40	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**48100**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080928	**AOCU-GW03-M**	Water	03/05/2011 11:36	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:11	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	25	03/10/2011 20:21	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.13B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**539**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.072B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.23B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**13700**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**0.41**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.12B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**481**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	250	03/10/2011 23:47	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**54700**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080929	**AOCU-GW05-M**	Water	03/05/2011 12:01	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:13	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/10/2011 20:28	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.058B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**824**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.018B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**8290**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.60**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.065B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**490**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/10/2011 23:54	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**39600**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080930	**AOCU-GW07-M**	Water	03/05/2011 10:31	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:14	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	25	03/10/2011 20:35	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.14B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**543**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.065B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.24B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**14000**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**0.22B**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.12B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**416**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	250	03/11/2011 00:02	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**57800**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080931	**AOCU-GW08-M**	Water	03/05/2011 10:11	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:16	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	25	03/10/2011 20:42	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.17B**	**1.50**	**0.10**	**mg/L**
7440-38-2	**Arsenic**	**0.13B**	**0.25**	**0.063**	**mg/L**
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**496**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.059B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.20B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**15300**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**0.43**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.13B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**549**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	250	03/11/2011 00:09	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**67000**	**250**	**12.9**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080932	**AOCU-GW10-M**	Water	03/04/2011 14:16	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:17	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/10/2011 20:49	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.081B**	**0.60**	**0.040**	**mg/L**
7440-38-2	**Arsenic**	**0.052B**	**0.10**	**0.025**	**mg/L**
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**838**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.018B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	Copper	0.014U	0.10	0.014	mg/L
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**7840**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**1.19**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.063B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**332**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/11/2011 00:16	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**33500**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080933	**AOCU-GW12-M**	Water	03/04/2011 13:11	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:19	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	10	03/11/2011 10:15	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.44U	2.00	0.44	mg/L
7440-36-0	**Antimony**	**0.076B**	**0.60**	**0.040**	**mg/L**
7440-38-2	Arsenic	0.025U	0.10	0.025	mg/L
7440-39-3	Barium	0.0011U	0.10	0.0011	mg/L
7440-41-7	Beryllium	0.0011U	0.050	0.0011	mg/L
7440-43-9	Cadmium	0.0011U	0.050	0.0011	mg/L
7440-70-2	**Calcium**	**840**	**1.00**	**0.26**	**mg/L**
7440-47-3	**Chromium**	**0.028B**	**0.10**	**0.0034**	**mg/L**
7440-48-4	Cobalt	0.0040U	0.10	0.0040	mg/L
7440-50-8	**Copper**	**0.16**	**0.10**	**0.014**	**mg/L**
7439-89-6	Iron	0.38U	1.00	0.38	mg/L
7439-92-1	Lead	0.014U	0.15	0.014	mg/L
7439-95-4	**Magnesium**	**4360**	**1.00**	**0.14**	**mg/L**
7439-96-5	**Manganese**	**0.62**	**0.15**	**0.012**	**mg/L**
7440-02-0	**Nickel**	**0.048B**	**0.40**	**0.0096**	**mg/L**
7440-09-7	**Potassium**	**611**	**5.00**	**0.53**	**mg/L**
7782-49-2	Selenium	0.043U	0.40	0.043	mg/L
7440-22-4	Silver	0.0060U	0.10	0.0060	mg/L
7440-28-0	Thallium	0.018U	0.20	0.018	mg/L
7440-62-2	Vanadium	0.0082U	0.20	0.0082	mg/L
7440-66-6	Zinc	0.027U	0.20	0.027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	100	03/11/2011 12:29	AJW	452270

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**38700**	**100**	**5.14**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080934	**AOCU-GW15-M**	Water	03/04/2011 15:31	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:21	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 00:31	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**17400**	**50.0**	**2.57**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/11/2011 10:52	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.050B**	**0.30**	**0.020**	**mg/L**
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	**Barium**	**0.0029B**	**0.050**	**0.00055**	**mg/L**
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1120**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.010B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.016B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**3440**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**1.18**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.032B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**143**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080935	**AOCU-GW17-M**	Water	03/04/2011 13:46	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:22	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	250	03/11/2011 00:38	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**62600**	**250**	**12.9**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	25	03/11/2011 10:59	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1.10U	5.00	1.10	mg/L
7440-36-0	**Antimony**	**0.14B**	**1.50**	**0.10**	**mg/L**
7440-38-2	Arsenic	0.063U	0.25	0.063	mg/L
7440-39-3	Barium	0.0028U	0.25	0.0028	mg/L
7440-41-7	Beryllium	0.0029U	0.13	0.0029	mg/L
7440-43-9	Cadmium	0.0028U	0.13	0.0028	mg/L
7440-70-2	**Calcium**	**358**	**2.50**	**0.64**	**mg/L**
7440-47-3	**Chromium**	**0.055B**	**0.25**	**0.0086**	**mg/L**
7440-48-4	Cobalt	0.0099U	0.25	0.0099	mg/L
7440-50-8	**Copper**	**0.11B**	**0.25**	**0.034**	**mg/L**
7439-89-6	Iron	0.94U	2.50	0.94	mg/L
7439-92-1	Lead	0.035U	0.38	0.035	mg/L
7439-95-4	**Magnesium**	**17100**	**2.50**	**0.36**	**mg/L**
7439-96-5	**Manganese**	**0.70**	**0.38**	**0.031**	**mg/L**
7440-02-0	**Nickel**	**0.15B**	**1.00**	**0.024**	**mg/L**
7440-09-7	**Potassium**	**555**	**12.5**	**1.32**	**mg/L**
7782-49-2	Selenium	0.11U	1.00	0.11	mg/L
7440-22-4	Silver	0.015U	0.25	0.015	mg/L
7440-28-0	Thallium	0.044U	0.50	0.044	mg/L
7440-62-2	Vanadium	0.020U	0.50	0.020	mg/L
7440-66-6	Zinc	0.068U	0.50	0.068	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080936	**AOCU-SW01-M**	Water	03/06/2011 10:41	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:27	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 00:45	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**14500**	**50.0**	**2.57**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/11/2011 11:06	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.030B**	**0.30**	**0.020**	**mg/L**
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**1160**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.013B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.033B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**3050**	**0.50**	**0.072**	**mg/L**
7439-96-5	Manganese	0.0062U	0.075	0.0062	mg/L
7440-02-0	**Nickel**	**0.030B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**80.8**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080937	**AOCU-SW02-M**	Water	03/06/2011 10:01	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:29	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 01:06	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16100**	**50.0**	**2.57**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/11/2011 11:13	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.027B**	**0.30**	**0.020**	**mg/L**
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**951**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.012B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.039B**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**2850**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.16**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.029B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**95.3**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080938	**AOCU-SW03-M**	Water	03/06/2011 08:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 12:59	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/09/2011 00:47	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.028B**	**0.30**	**0.020**	**mg/L**
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**842**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.0075B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.14**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1300**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.080**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.047B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**49.5**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	Vanadium	0.0041U	0.10	0.0041	mg/L
7440-66-6	**Zinc**	**0.059B**	**0.10**	**0.014**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 11:54	AJW	452270

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**6510**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080939	**AOCU-SW03-A-M**	Water	03/06/2011 08:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:30	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.000081U	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 01:13	AJW	452253

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7240**	**50.0**	**2.57**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/11/2011 11:20	CLB	452215

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.22U	1.00	0.22	mg/L
7440-36-0	**Antimony**	**0.033B**	**0.30**	**0.020**	**mg/L**
7440-38-2	Arsenic	0.013U	0.050	0.013	mg/L
7440-39-3	Barium	0.00055U	0.050	0.00055	mg/L
7440-41-7	Beryllium	0.00057U	0.025	0.00057	mg/L
7440-43-9	Cadmium	0.00055U	0.025	0.00055	mg/L
7440-70-2	**Calcium**	**874**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.015B**	**0.050**	**0.0017**	**mg/L**
7440-48-4	Cobalt	0.0020U	0.050	0.0020	mg/L
7440-50-8	**Copper**	**0.085**	**0.050**	**0.0069**	**mg/L**
7439-89-6	Iron	0.19U	0.50	0.19	mg/L
7439-92-1	Lead	0.0070U	0.075	0.0070	mg/L
7439-95-4	**Magnesium**	**1510**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.045B**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.019B**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**55.1**	**2.50**	**0.26**	**mg/L**
7782-49-2	Selenium	0.022U	0.20	0.022	mg/L
7440-22-4	Silver	0.0030U	0.050	0.0030	mg/L
7440-28-0	Thallium	0.0088U	0.10	0.0088	mg/L
7440-62-2	**Vanadium**	**0.042B**	**0.10**	**0.0041**	**mg/L**
7440-66-6	Zinc	0.014U	0.10	0.014	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080940	**AOCU-SW03-M-MS**	Water	03/06/2011 08:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:00	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00328**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/09/2011 00:53	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.77**	**1.00**	**0.22**	**mg/L**
7440-36-0	**Antimony**	**0.55**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.57**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.49**	**0.050**	**0.00055**	**mg/L**
7440-41-7	**Beryllium**	**0.50**	**0.025**	**0.00057**	**mg/L**
7440-43-9	**Cadmium**	**0.48**	**0.025**	**0.00055**	**mg/L**
7440-70-2	**Calcium**	**880**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.48**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.48**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.63**	**0.050**	**0.0069**	**mg/L**
7439-89-6	**Iron**	**4.76**	**0.50**	**0.19**	**mg/L**
7439-92-1	**Lead**	**0.47**	**0.075**	**0.0070**	**mg/L**
7439-95-4	**Magnesium**	**1470**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.54**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.51**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**70.2**	**2.50**	**0.26**	**mg/L**
7782-49-2	**Selenium**	**0.53**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.53**	**0.050**	**0.0030**	**mg/L**
7440-28-0	**Thallium**	**0.45**	**0.10**	**0.0088**	**mg/L**
7440-62-2	**Vanadium**	**0.33**	**0.10**	**0.0041**	**mg/L**
7440-66-6	**Zinc**	**0.53**	**0.10**	**0.014**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 12:01	AJW	452270

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7590**	**50.0**	**2.57**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21103080941	**AOCU-SW03-M-MSD**	Water	03/06/2011 08:51	03/08/2011 08:55

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452014	SW-846 7470A Dissolved	1	03/09/2011 13:02	AJW	452103

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00297**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	5	03/09/2011 01:00	AJW	452019

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4.59**	**1.00**	**0.22**	**mg/L**
7440-36-0	**Antimony**	**0.53**	**0.30**	**0.020**	**mg/L**
7440-38-2	**Arsenic**	**0.53**	**0.050**	**0.013**	**mg/L**
7440-39-3	**Barium**	**0.46**	**0.050**	**0.00055**	**mg/L**
7440-41-7	**Beryllium**	**0.47**	**0.025**	**0.00057**	**mg/L**
7440-43-9	**Cadmium**	**0.45**	**0.025**	**0.00055**	**mg/L**
7440-70-2	**Calcium**	**856**	**0.50**	**0.13**	**mg/L**
7440-47-3	**Chromium**	**0.45**	**0.050**	**0.0017**	**mg/L**
7440-48-4	**Cobalt**	**0.46**	**0.050**	**0.0020**	**mg/L**
7440-50-8	**Copper**	**0.61**	**0.050**	**0.0069**	**mg/L**
7439-89-6	**Iron**	**4.57**	**0.50**	**0.19**	**mg/L**
7439-92-1	**Lead**	**0.44**	**0.075**	**0.0070**	**mg/L**
7439-95-4	**Magnesium**	**1420**	**0.50**	**0.072**	**mg/L**
7439-96-5	**Manganese**	**0.53**	**0.075**	**0.0062**	**mg/L**
7440-02-0	**Nickel**	**0.48**	**0.20**	**0.0048**	**mg/L**
7440-09-7	**Potassium**	**68.0**	**2.50**	**0.26**	**mg/L**
7782-49-2	**Selenium**	**0.48**	**0.20**	**0.022**	**mg/L**
7440-22-4	**Silver**	**0.51**	**0.050**	**0.0030**	**mg/L**
7440-28-0	**Thallium**	**0.40**	**0.10**	**0.0088**	**mg/L**
7440-62-2	**Vanadium**	**0.34**	**0.10**	**0.0041**	**mg/L**
7440-66-6	**Zinc**	**0.50**	**0.10**	**0.014**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
03/08/2011 11:15	452012	SW-846 3005 Dissolved	50	03/11/2011 12:08	AJW	452270

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**7610**	**50.0**	**2.57**	**mg/L**

GC/MS Volatiles Quality Control Summary

Analytical Batch 452153		**Client ID**	MB452153			LCS452153			LCSD452153		
Prep Batch N/A		**GCAL ID**	927888			927889			927890		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/09/2011 22:16			03/09/2011 21:09			03/09/2011 21:32		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	48.9	98	59 - 134	51.1	102	4	30
107-02-8	Acrolein		2.49U	2.49	250	254	102	33 - 157	276	110	8	30
107-13-1	Acrylonitrile		1.62U	1.62	250	259	104	62 - 124	257	103	0.8	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	49.1	98	78 - 112	49.7	99	1	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	51.8	104	76 - 116	49.7	99	4	30
75-25-2	Bromoform		0.278U	0.278	50.0	43.3	87	68 - 128	43.1	86	0.5	30
74-83-9	Bromomethane		0.276U	0.276	50.0	49.2	98	55 - 151	48.1	96	2	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	50.7	101	67 - 147	47.6	95	6	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	49.7	99	74 - 139	47.7	95	4	30
75-00-3	Chloroethane		0.279U	0.279	50.0	50.4	101	54 - 166	47.8	96	5	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	103	103	83 - 121	96.7	97	6	30
67-66-3	Chloroform		0.062U	0.062	50.0	47.4	95	85 - 123	45.1	90	5	30
74-87-3	Chloromethane		0.076U	0.076	50.0	46.7	93	55 - 173	46.1	92	1	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	43.9	88	74 - 116	44.4	89	1	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	50.8	102	81 - 116	49.3	99	3	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	48.4	97	34 - 158	45.0	90	7	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	50.2	100	82 - 127	47.9	96	5	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	50.6	101	76 - 122	49.5	99	2	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	50.0	100	81 - 114	48.0	96	4	30
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096	50.0	51.3	103	82 - 126	48.6	97	5	30
75-09-2	Methylene chloride		0.102U	0.102	50.0	49.1	98	69 - 125	46.7	93	5	30
78-87-5	1,2-Dichloropropane		0.114U	0.114	50.0	49.6	99	81 - 120	47.8	96	4	30
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105	50.0	45.9	92	83 - 119	46.0	92	0.2	30
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068	50.0	44.8	90	87 - 123	43.1	**86***	4	30
100-41-4	Ethylbenzene		0.180U	0.180	50.0	51.0	102	87 - 118	49.0	98	4	30
97-63-2	Ethyl methacrylate		0.340U	0.340								
591-78-6	2-Hexanone		0.302U	0.302	50.0	42.7	85	58 - 125	43.9	88	3	30
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058	50.0	50.9	102	87 - 131	48.4	97	5	30
78-93-3	2-Butanone		0.235U	0.235	50.0	50.7	101	61 - 127	54.2	108	7	30
74-88-4	Methyl iodide		0.097U	0.097	50.0	50.3	101	72 - 125	47.7	95	5	30
108-10-1	4-Methyl-2-pentanone		0.142U	0.142	50.0	50.0	100	62 - 125	50.4	101	0.8	30
103-65-1	n-Propylbenzene		0.069U	0.069	50.0	53.2	106	86 - 125	50.9	102	4	30
100-42-5	Styrene		0.058U	0.058	50.0	50.9	102	78 - 118	49.5	99	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 452153		**Client ID**	MB452153			LCS452153			LCSD452153		
Prep Batch N/A		**GCAL ID**	927888			927889			927890		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/09/2011 22:16			03/09/2011 21:09			03/09/2011 21:32		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
127-18-4	Tetrachloroethene		0.210U	0.210	50.0	48.4	97	80 - 131	45.5	91	6	30
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150	50.0	44.3	89	81 - 119	43.3	87	2	30
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112	50.0	52.7	105	71 - 120	51.6	103	2	30
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138	50.0	53.7	107	68 - 123	53.2	106	0.9	30
71-55-6	1,1,1-Trichloroethane		0.078U	0.078	50.0	50.5	101	79 - 133	47.7	95	6	30
79-00-5	1,1,2-Trichloroethane		0.179U	0.179	50.0	46.4	93	80 - 114	48.0	96	3	30
75-69-4	Trichlorofluoromethane		0.094U	0.094	50.0	47.9	96	66 - 156	45.6	91	5	30
96-18-4	1,2,3-Trichloropropane		0.063U	0.063	50.0	50.4	101	77 - 115	51.6	103	2	30
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080	50.0	55.0	110	82 - 120	52.8	106	4	30
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053	50.0	52.9	106	83 - 123	50.4	101	5	30
75-01-4	Vinyl chloride		0.104U	0.104	50.0	49.8	100	57 - 153	48.0	96	4	30
95-47-6	o-Xylene		0.077U	0.077	50.0	49.7	99	83 - 121	49.0	98	1	30
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082	50.0	45.8	92	61 - 118	47.2	94	3	30
106-93-4	1,2-Dibromoethane		0.169U	0.169	50.0	48.5	97	80 - 115	48.5	97	0	30
80-62-6	Methyl methacrylate		0.606U	0.606								
107-12-0	Propionitrile		3.06U	3.06								
108-05-4	Vinyl acetate		0.197U	0.197	50.0	45.4	91	38 - 159	44.0	88	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084	50.0	50.3	101	75 - 116	49.7	99	1	30
99-87-6	4-Isopropyltoluene		0.175U	0.175	50.0	48.2	96	83 - 125	46.3	93	4	30
110-54-3	n-Hexane		0.126U	0.126	50.0	50.8	102	71 - 134	44.6	89	13	30
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429	50.0	49.4	99	51 - 137	48.0	96	3	30
594-20-7	2,2-Dichloropropane		0.112U	0.112	50.0	51.4	103	77 - 138	47.6	95	8	30
76-13-1	Trichlorotrifluoroethane		0.141U	0.141	50.0	49.6	99	74 - 139	46.8	94	6	30
563-58-6	1,1-Dichloropropene		0.071U	0.071	50.0	50.2	100	87 - 127	48.9	98	3	30
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20	50.0	56.0	112	63 - 125	57.1	114	2	30
142-28-9	1,3-Dichloropropane		0.113U	0.113	50.0	48.5	97	81 - 113	47.4	95	2	30
108-86-1	Bromobenzene		0.095U	0.095	50.0	51.6	103	83 - 115	50.8	102	2	30
95-49-8	2-Chlorotoluene		0.090U	0.090	50.0	52.3	105	81 - 121	51.1	102	2	30
106-43-4	4-Chlorotoluene		0.046U	0.046	50.0	54.3	109	84 - 120	52.7	105	3	30
98-06-6	tert-Butylbenzene		0.058U	0.058	50.0	52.6	105	83 - 126	50.6	101	4	30
135-98-8	sec-Butylbenzene		0.088U	0.088	50.0	52.8	106	86 - 127	50.5	101	4	30
541-73-1	1,3-Dichlorobenzene		0.080U	0.080	50.0	54.1	108	86 - 115	53.4	107	1	30
106-46-7	1,4-Dichlorobenzene		0.058U	0.058	50.0	50.8	102	87 - 113	50.9	102	0.2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 452153		**Client ID**	MB452153			LCS452153			LCSD452153		
Prep Batch N/A		**GCAL ID**	927888			927889			927890		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/09/2011 22:16			03/09/2011 21:09			03/09/2011 21:32		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
104-51-8	n-Butylbenzene		0.068U	0.068	50.0	53.4	107	84 - 124	51.1	102	4	30
95-50-1	1,2-Dichlorobenzene		0.086U	0.086	50.0	52.7	105	85 - 115	52.0	104	1	30
87-68-3	Hexachlorobutadiene		0.347U	0.347	50.0	48.1	96	71 - 133	44.4	89	8	30
91-20-3	Naphthalene		0.175U	0.175	50.0	52.1	104	59 - 125	54.9	110	5	35
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	51.5	103	64 - 126	51.0	102	1	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	51.3	103	87 - 128	43.0	**86***	18	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	46.2	92	75 - 133	46.5	93	0.6	20
71-43-2	Benzene		0.049U	0.049	50.0	51.4	103	83 - 124	50.5	101	2	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	51.9	104	85 - 124	49.5	99	5	20
108-88-3	Toluene		0.078U	0.078	50.0	47.5	95	86 - 116	46.6	93	2	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	47.9	96	87 - 115	47.2	94	1	20
Surrogate												
460-00-4	4-Bromofluorobenzene		49.5	99	50	47.5	95	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane		48.1	96	50	49.3	99	87 - 116	48.6	97		
2037-26-5	Toluene d8		50	100	50	46.3	93	86 - 112	47.1	94		
17060-07-0	1,2-Dichloroethane-d4		50.7	101	50	48.8	98	76 - 127	49.1	98		

Analytical Batch 452154		**Client ID**	MB452154			LCS452154			LCSD452154		
Prep Batch N/A		**GCAL ID**	927891			927892			927893		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 00:27			03/09/2011 21:33			03/09/2011 21:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	56.2	112	59 - 134	56.6	113	0.7	30
107-02-8	Acrolein		2.49U	2.49	250	260	104	33 - 157	247	99	5	30
107-13-1	Acrylonitrile		1.62U	1.62	250	269	108	62 - 124	260	104	3	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	52.6	105	78 - 112	56.1	112	6	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154		**Client ID**	MB452154			LCS452154			LCSD452154		
Prep Batch N/A		**GCAL ID**	927891			927892			927893		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 00:27			03/09/2011 21:33			03/09/2011 21:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-27-4	Bromodichloromethane	0.071U		0.071	50.0	49.6	99	76 - 116	46.7	93	6	30
75-25-2	Bromoform	0.278U		0.278	50.0	53.0	106	68 - 128	51.6	103	3	30
74-83-9	Bromomethane	0.276U		0.276	50.0	54.7	109	55 - 151	51.4	103	6	30
75-15-0	Carbon disulfide	0.190U		0.190	50.0	54.4	109	67 - 147	50.6	101	7	30
56-23-5	Carbon tetrachloride	0.056U		0.056	50.0	51.0	102	74 - 139	48.4	97	5	30
75-00-3	Chloroethane	0.279U		0.279	50.0	59.9	120	54 - 166	54.0	108	10	30
136777-61-2	m,p-Xylene	0.099U		0.099	100	102	102	83 - 121	96.3	96	6	30
67-66-3	Chloroform	0.062U		0.062	50.0	48.5	97	85 - 123	52.0	104	7	30
74-87-3	Chloromethane	0.076U		0.076	50.0	48.3	97	55 - 173	46.0	92	5	30
124-48-1	Dibromochloromethane	0.133U		0.133	50.0	52.3	105	74 - 116	50.2	100	4	30
74-95-3	Dibromomethane	0.197U		0.197	50.0	48.8	98	81 - 116	45.8	92	6	30
75-71-8	Dichlorodifluoromethane	0.088U		0.088	50.0	47.9	96	34 - 158	45.8	92	4	30
75-34-3	1,1-Dichloroethane	0.064U		0.064	50.0	51.0	102	82 - 127	46.9	94	8	30
107-06-2	1,2-Dichloroethane	0.121U		0.121	50.0	50.1	100	76 - 122	47.7	95	5	30
156-59-2	cis-1,2-Dichloroethene	0.104U		0.104	50.0	50.0	100	81 - 114	44.9	90	11	30
156-60-5	trans-1,2-Dichloroethene	0.096U		0.096	50.0	51.8	104	82 - 126	48.6	97	6	30
75-09-2	Methylene chloride	0.102U		0.102	50.0	49.6	99	69 - 125	46.1	92	7	30
78-87-5	1,2-Dichloropropane	0.114U		0.114	50.0	49.9	100	81 - 120	48.5	97	3	30
10061-01-5	cis-1,3-Dichloropropene	0.105U		0.105	50.0	50.9	102	83 - 119	48.5	97	5	30
10061-02-6	trans-1,3-Dichloropropene	0.068U		0.068	50.0	51.9	104	87 - 123	49.5	99	5	30
100-41-4	Ethylbenzene	0.180U		0.180	50.0	51.3	103	87 - 118	48.7	97	5	30
97-63-2	Ethyl methacrylate	0.340U		0.340								
591-78-6	2-Hexanone	0.302U		0.302	50.0	52.6	105	58 - 125	51.7	103	2	30
98-82-8	Isopropylbenzene (Cumene)	0.058U		0.058	50.0	51.7	103	87 - 131	49.5	99	4	30
78-93-3	2-Butanone	0.235U		0.235	50.0	53.7	107	61 - 127	51.0	102	5	30
74-88-4	Methyl iodide	0.097U		0.097	50.0	56.1	112	72 - 125	49.5	99	13	30
108-10-1	4-Methyl-2-pentanone	0.142U		0.142	50.0	55.2	110	62 - 125	50.3	101	9	30
103-65-1	n-Propylbenzene	0.069U		0.069	50.0	50.7	101	86 - 125	49.2	98	3	30
100-42-5	Styrene	0.058U		0.058	50.0	50.6	101	78 - 118	49.6	99	2	30
127-18-4	Tetrachloroethene	0.210U		0.210	50.0	51.9	104	80 - 131	48.7	97	6	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U		0.150	50.0	49.9	100	81 - 119	48.4	97	3	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U		0.112	50.0	51.3	103	71 - 120	50.4	101	2	30
120-82-1	1,2,4-Trichlorobenzene	0.138U		0.138	50.0	52.8	106	68 - 123	49.0	98	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154		**Client ID**	MB452154			LCS452154			LCSD452154		
Prep Batch N/A		**GCAL ID**	927891			927892			927893		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 00:27			03/09/2011 21:33			03/09/2011 21:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
71-55-6	1,1,1-Trichloroethane	0.078U		0.078	50.0	51.5	103	79 - 133	46.6	93	10	30
79-00-5	1,1,2-Trichloroethane	0.179U		0.179	50.0	51.0	102	80 - 114	49.4	99	3	30
75-69-4	Trichlorofluoromethane	0.094U		0.094	50.0	52.7	105	66 - 156	47.5	95	10	30
96-18-4	1,2,3-Trichloropropane	0.063U		0.063	50.0	52.0	104	77 - 115	50.6	101	3	30
95-63-6	1,2,4-Trimethylbenzene	0.080U		0.080	50.0	49.5	99	82 - 120	47.2	94	5	30
108-67-8	1,3,5-Trimethylbenzene	0.053U		0.053	50.0	50.7	101	83 - 123	47.1	94	7	30
75-01-4	Vinyl chloride	0.104U		0.104	50.0	54.9	110	57 - 153	48.9	98	12	30
95-47-6	o-Xylene	0.077U		0.077	50.0	49.6	99	83 - 121	49.3	99	0.6	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U		0.082	50.0	56.4	113	61 - 118	52.8	106	7	30
106-93-4	1,2-Dibromoethane	0.169U		0.169	50.0	50.5	101	80 - 115	48.6	97	4	30
80-62-6	Methyl methacrylate	0.606U		0.606								
107-12-0	Propionitrile	3.06U		3.06								
108-05-4	Vinyl acetate	0.197U		0.197	50.0	51.0	102	38 - 159	49.6	99	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U		0.084	50.0	52.2	104	75 - 116	48.7	97	7	30
99-87-6	4-Isopropyltoluene	0.175U		0.175	50.0	50.6	101	83 - 125	46.9	94	8	30
110-54-3	n-Hexane	0.126U		0.126	50.0	60.0	120	71 - 134	49.8	100	19	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U		0.429	50.0	55.0	110	51 - 137	51.0	102	8	30
594-20-7	2,2-Dichloropropane	0.112U		0.112	50.0	47.1	94	77 - 138	43.8	88	7	30
76-13-1	Trichlorotrifluoroethane	0.141U		0.141	50.0	52.3	105	74 - 139	48.0	96	9	30
563-58-6	1,1-Dichloropropene	0.071U		0.071	50.0	51.3	103	87 - 127	46.8	94	9	30
110-75-8	2-Chloroethylvinyl ether	1.20U		1.20	50.0	56.0	112	63 - 125	53.9	108	4	30
142-28-9	1,3-Dichloropropane	0.113U		0.113	50.0	52.0	104	81 - 113	50.2	100	4	30
108-86-1	Bromobenzene	0.095U		0.095	50.0	50.0	100	83 - 115	48.9	98	2	30
95-49-8	2-Chlorotoluene	0.090U		0.090	50.0	50.6	101	81 - 121	48.3	97	5	30
106-43-4	4-Chlorotoluene	0.046U		0.046	50.0	49.7	99	84 - 120	47.0	94	6	30
98-06-6	tert-Butylbenzene	0.058U		0.058	50.0	51.9	104	83 - 126	48.9	98	6	30
135-98-8	sec-Butylbenzene	0.088U		0.088	50.0	50.0	100	86 - 127	46.5	93	7	30
541-73-1	1,3-Dichlorobenzene	0.080U		0.080	50.0	50.8	102	86 - 115	48.7	97	4	30
106-46-7	1,4-Dichlorobenzene	0.058U		0.058	50.0	50.1	100	87 - 113	48.7	97	3	30
104-51-8	n-Butylbenzene	0.068U		0.068	50.0	51.4	103	84 - 124	48.5	97	6	30
95-50-1	1,2-Dichlorobenzene	0.086U		0.086	50.0	50.0	100	85 - 115	49.6	99	0.8	30
87-68-3	Hexachlorobutadiene	0.347U		0.347	50.0	53.5	107	71 - 133	49.0	98	9	30
91-20-3	Naphthalene	0.175U		0.175	50.0	58.9	118	59 - 125	58.0	116	2	35

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154		**Client ID**	MB452154			LCS452154			LCSD452154		
Prep Batch N/A		**GCAL ID**	927891			927892			927893		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 00:27			03/09/2011 21:33			03/09/2011 21:55		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107	50.0	56.8	114	64 - 126	55.6	111	2	30
75-05-8	Acetonitrile		5.04U	5.04								
107-05-1	Allyl chloride		0.343U	0.343								
544-10-5	1-Chlorohexane		0.139U	0.139	50.0	47.0	94	87 - 128	44.5	89	5	30
76-01-7	Pentachloroethane		1.87U	1.87								
126-98-7	Methacrylonitrile		0.743U	0.743								
75-35-4	1,1-Dichloroethene		0.183U	0.183	50.0	53.7	107	75 - 133	50.4	101	6	20
71-43-2	Benzene		0.049U	0.049	50.0	51.4	103	83 - 124	47.0	94	9	20
79-01-6	Trichloroethene		0.094U	0.094	50.0	53.9	108	85 - 124	48.9	98	10	20
108-88-3	Toluene		0.078U	0.078	50.0	49.9	100	86 - 116	47.0	94	6	20
108-90-7	Chlorobenzene		0.055U	0.055	50.0	52.1	104	87 - 115	49.5	99	5	20
Surrogate												
460-00-4	4-Bromofluorobenzene		50.2	100	50	50.8	102	84 - 120	50.3	101		
1868-53-7	Dibromofluoromethane		46.9	94	50	50.5	101	87 - 116	49.9	100		
2037-26-5	Toluene d8		50.7	101	50	50.7	101	86 - 112	49.7	99		
17060-07-0	1,2-Dichloroethane-d4		50.4	101	50	51.3	103	76 - 127	49.3	99		

Analytical Batch 452154		**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD		
Prep Batch N/A		**GCAL ID**	21103080916			21103080919			21103080920		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/10/2011 00:50			03/10/2011 01:13			03/10/2011 01:35		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.150	50.0	48.4	97	81 - 119	46.4	93	4	10
71-55-6	1,1,1-Trichloroethane		0.00	0.078	50.0	49.4	99	79 - 133	44.7	89	10	11
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.112	50.0	53.9	108	71 - 120	55.1	110	2	11
79-00-5	1,1,2-Trichloroethane		0.00	0.179	50.0	51.3	103	80 - 114	48.0	96	7	11
75-34-3	1,1-Dichloroethane		0.00	0.064	50.0	46.4	93	82 - 127	47.8	96	3	10
75-35-4	1,1-Dichloroethene		0.00	0.183	50.0	51.5	103	75 - 133	48.9	98	5	13
563-58-6	1,1-Dichloropropene		0.00	0.071	50.0	48.7	97	87 - 127	48.3	97	0.8	10
87-61-6	1,2,3-Trichlorobenzene		0.00	0.107	50.0	45.6	91	64 - 126	51.0	102	11	16

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154	**Client ID**	AOCU-SW03	AOCU-SW03-MS	AOCU-SW03-MSD
Prep Batch N/A	**GCAL ID**	21103080916	21103080919	21103080920
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/10/2011 00:50	03/10/2011 01:13	03/10/2011 01:35
	Matrix	Water	Water	Water

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
96-18-4	1,2,3-Trichloropropane	0.00	0.063	50.0	51.6	103	77 - 115	54.3	109	5	12
120-82-1	1,2,4-Trichlorobenzene	0.00	0.138	50.0	42.9	86	68 - 123	47.3	95	10	11
95-63-6	1,2,4-Trimethylbenzene	0.00	0.080	50.0	46.1	92	82 - 120	44.4	89	4	10
96-12-8	1,2-Dibromo-3-chloropropane	0.00	0.082	50.0	54.1	108	61 - 118	59.7	**119***	10	15
106-93-4	1,2-Dibromoethane	0.00	0.169	50.0	49.8	100	80 - 115	48.8	98	2	10
95-50-1	1,2-Dichlorobenzene	0.00	0.086	50.0	46.5	93	85 - 115	48.1	96	3	9
107-06-2	1,2-Dichloroethane	0.00	0.121	50.0	48.1	96	76 - 122	49.8	100	3	11
78-87-5	1,2-Dichloropropane	0.00	0.114	50.0	48.4	97	81 - 120	47.8	96	1	11
108-67-8	1,3,5-Trimethylbenzene	0.00	0.053	50.0	46.9	94	83 - 123	45.7	91	3	10
541-73-1	1,3-Dichlorobenzene	0.00	0.080	50.0	46.6	93	86 - 115	46.0	92	1	9
142-28-9	1,3-Dichloropropane	0.00	0.113	50.0	50.6	101	81 - 113	49.8	100	2	11
106-46-7	1,4-Dichlorobenzene	0.00	0.058	50.0	45.6	91	87 - 113	46.4	93	2	10
544-10-5	1-Chlorohexane	0.00	0.139	50.0	41.4	**83***	87 - 128	38.8	**78***	6	10
594-20-7	2,2-Dichloropropane	0.00	0.112	50.0	50.1	100	77 - 138	42.6	85	**16***	12
78-93-3	2-Butanone	0.00	0.235	50.0	49.3	99	61 - 127	53.4	107	8	13
110-75-8	2-Chloroethylvinyl ether	0.00	1.20	50.0	0.00	**0***	63 - 125	0.00	**0***	0	24
95-49-8	2-Chlorotoluene	0.00	0.090	50.0	47.7	95	81 - 121	46.2	92	3	10
591-78-6	2-Hexanone	0.00	0.302	50.0	54.4	109	58 - 125	56.0	112	3	14
106-43-4	4-Chlorotoluene	0.00	0.046	50.0	45.6	91	84 - 120	45.0	90	1	10
99-87-6	4-Isopropyltoluene	0.00	0.175	50.0	45.3	91	83 - 125	44.3	89	2	9
108-10-1	4-Methyl-2-pentanone	0.00	0.142	50.0	62.5	125	62 - 125	66.2	**132***	6	13
67-64-1	Acetone	0.00	0.322	50.0	36.8	74	59 - 134	41.6	83	12	14
107-02-8	Acrolein	0.00	2.49	250	240	96	33 - 157	261	104	8	21
107-13-1	Acrylonitrile	0.00	1.62	250	257	103	62 - 124	280	112	9	13
71-43-2	Benzene	0.00	0.049	50.0	47.7	95	83 - 124	46.7	93	2	11
108-86-1	Bromobenzene	0.00	0.095	50.0	47.0	94	83 - 115	45.7	91	3	10
74-97-5	Bromochloromethane	0.00	0.238	50.0	59.0	**118***	78 - 112	51.0	102	**15***	10
75-27-4	Bromodichloromethane	0.00	0.071	50.0	48.2	96	76 - 116	47.4	95	2	10
75-25-2	Bromoform	0.00	0.278	50.0	50.4	101	68 - 128	52.2	104	4	11
74-83-9	Bromomethane	0.00	0.276	50.0	49.5	99	55 - 151	50.3	101	2	21
75-15-0	Carbon disulfide	0.00	0.190	50.0	49.9	100	67 - 147	49.5	99	0.8	12
56-23-5	Carbon tetrachloride	0.00	0.056	50.0	50.1	100	74 - 139	46.1	92	8	13
108-90-7	Chlorobenzene	0.00	0.055	50.0	48.3	97	87 - 115	47.3	95	2	9

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154	**Client ID**	AOCU-SW03	AOCU-SW03-MS	AOCU-SW03-MSD
Prep Batch N/A	**GCAL ID**	21103080916	21103080919	21103080920
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	03/10/2011 00:50	03/10/2011 01:13	03/10/2011 01:35
	Matrix	Water	Water	Water

SW-846 8260B Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-00-3	Chloroethane	0.00	0.279	50.0	53.7	107	54 - 166	50.4	101	6	20
67-66-3	Chloroform	0.00	0.062	50.0	53.2	106	85 - 123	46.9	94	**13***	10
74-87-3	Chloromethane	0.00	0.076	50.0	45.8	92	55 - 173	46.2	92	0.9	22
124-48-1	Dibromochloromethane	0.00	0.133	50.0	49.3	99	74 - 116	48.3	97	2	11
74-95-3	Dibromomethane	0.00	0.197	50.0	47.5	95	81 - 116	48.6	97	2	10
75-71-8	Dichlorodifluoromethane	0.00	0.088	50.0	48.7	97	34 - 158	47.4	95	3	22
100-41-4	Ethylbenzene	0.00	0.180	50.0	47.0	94	87 - 118	45.1	90	4	10
87-68-3	Hexachlorobutadiene	0.00	0.347	50.0	43.9	88	71 - 133	47.7	95	8	12
98-82-8	Isopropylbenzene (Cumene)	0.00	0.058	50.0	46.7	93	87 - 131	43.9	88	6	10
74-88-4	Methyl iodide	0.00	0.097	50.0	50.9	102	72 - 125	49.5	99	3	11
75-09-2	Methylene chloride	0.00	0.102	50.0	46.3	93	69 - 125	47.4	95	2	11
91-20-3	Naphthalene	0.00	0.175	50.0	50.2	100	59 - 125	58.4	117	15	15
100-42-5	Styrene	0.00	0.058	50.0	46.9	94	78 - 118	45.4	91	3	11
127-18-4	Tetrachloroethene	0.00	0.210	50.0	47.2	94	80 - 131	43.6	87	8	12
108-88-3	Toluene	0.00	0.078	50.0	47.2	94	86 - 116	43.4	87	8	10
79-01-6	Trichloroethene	0.00	0.094	50.0	50.9	102	85 - 124	49.5	99	3	10
75-69-4	Trichlorofluoromethane	0.00	0.094	50.0	50.2	100	66 - 156	48.8	98	3	15
76-13-1	Trichlorotrifluoroethane	0.00	0.141	50.0	49.6	99	74 - 139	49.2	98	0.8	13
108-05-4	Vinyl acetate	0.00	0.197	50.0	54.1	108	38 - 159	56.3	113	4	11
75-01-4	Vinyl chloride	0.00	0.104	50.0	50.6	101	57 - 153	48.7	97	4	22
156-59-2	cis-1,2-Dichloroethene	0.00	0.104	50.0	46.7	93	81 - 114	45.6	91	2	10
10061-01-5	cis-1,3-Dichloropropene	0.00	0.105	50.0	49.3	99	83 - 119	48.3	97	2	10
136777-61-2	m,p-Xylene	0.00	0.099	100	93.8	94	83 - 121	91.7	92	2	10
104-51-8	n-Butylbenzene	0.00	0.068	50.0	45.2	90	84 - 124	45.7	91	1	10
110-54-3	n-Hexane	0.00	0.126	50.0	49.4	99	71 - 134	50.3	101	2	11
103-65-1	n-Propylbenzene	0.00	0.069	50.0	47.5	95	86 - 125	46.5	93	2	10
95-47-6	o-Xylene	0.00	0.077	50.0	45.7	91	83 - 121	44.1	88	4	10
135-98-8	sec-Butylbenzene	0.00	0.088	50.0	44.4	89	86 - 127	44.3	89	0.2	10
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.084	50.0	50.8	102	75 - 116	52.2	104	3	10
98-06-6	tert-Butylbenzene	0.00	0.058	50.0	47.7	95	83 - 126	46.6	93	2	10
156-60-5	trans-1,2-Dichloroethene	0.00	0.096	50.0	47.1	94	82 - 126	49.1	98	4	10
10061-02-6	trans-1,3-Dichloropropene	0.00	0.068	50.0	48.7	97	87 - 123	46.3	93	5	10
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.429	50.0	58.5	117	51 - 137	61.3	123	5	24

GC/MS Volatiles Quality Control Summary

Analytical Batch 452154		**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD		
Prep Batch N/A		**GCAL ID**	21103080916			21103080919			21103080920		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	03/10/2011 00:50			03/10/2011 01:13			03/10/2011 01:35		
		Matrix	Water			Water			Water		
SW-846 8260B Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
Surrogate												
460-00-4	4-Bromofluorobenzene		48.1	96	50	48.9	98	84 - 120	49.1	98		
1868-53-7	Dibromofluoromethane		50.3	101	50	49.8	100	87 - 116	46.3	93		
2037-26-5	Toluene d8		47.6	95	50	48.2	96	86 - 112	48.3	97		
17060-07-0	1,2-Dichloroethane-d4		51.9	104	50	50.8	102	76 - 127	51.8	104		

Analytical Batch 452190		**Client ID**	MB452190			LCS452190			LCSD452190		
Prep Batch N/A		**GCAL ID**	928095			928096			928097		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 12:48			03/10/2011 11:15			03/10/2011 11:38		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		0.322U	0.322	50.0	42.9	86	59 - 134	47.0	94	9	30
107-02-8	Acrolein		2.49U	2.49	250	253	101	33 - 157	240	96	5	30
107-13-1	Acrylonitrile		1.62U	1.62	250	241	96	62 - 124	245	98	2	30
74-97-5	Bromochloromethane		0.238U	0.238	50.0	56.4	**113***	78 - 112	50.4	101	11	30
75-27-4	Bromodichloromethane		0.071U	0.071	50.0	46.8	94	76 - 116	43.2	86	8	30
75-25-2	Bromoform		0.278U	0.278	50.0	46.4	93	68 - 128	46.8	94	0.9	30
74-83-9	Bromomethane		0.276U	0.276	50.0	47.0	94	55 - 151	45.3	91	4	30
75-15-0	Carbon disulfide		0.190U	0.190	50.0	48.5	97	67 - 147	42.1	84	14	30
56-23-5	Carbon tetrachloride		0.056U	0.056	50.0	48.3	97	74 - 139	44.0	88	9	30
75-00-3	Chloroethane		0.279U	0.279	50.0	51.3	103	54 - 166	46.1	92	11	30
136777-61-2	m,p-Xylene		0.099U	0.099	100	93.2	93	83 - 121	91.2	91	2	30
67-66-3	Chloroform		0.062U	0.062	50.0	50.9	102	85 - 123	47.1	94	8	30
74-87-3	Chloromethane		0.076U	0.076	50.0	42.0	84	55 - 173	40.8	82	3	30
124-48-1	Dibromochloromethane		0.133U	0.133	50.0	46.0	92	74 - 116	45.9	92	0.2	30
74-95-3	Dibromomethane		0.197U	0.197	50.0	44.4	89	81 - 116	42.2	84	5	30
75-71-8	Dichlorodifluoromethane		0.088U	0.088	50.0	43.6	87	34 - 158	38.4	77	13	30
75-34-3	1,1-Dichloroethane		0.064U	0.064	50.0	45.0	90	82 - 127	41.9	84	7	30
107-06-2	1,2-Dichloroethane		0.121U	0.121	50.0	46.5	93	76 - 122	43.3	87	7	30
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104	50.0	52.2	104	81 - 114	41.1	82	24	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	452190	**Client ID**	MB452190			LCS452190			LCSD452190		
Prep Batch	N/A	**GCAL ID**	928095			928096			928097		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 12:48			03/10/2011 11:15			03/10/2011 11:38		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	46.6	93	82 - 126	40.9	82	13	30
75-09-2	Methylene chloride	0.102U	0.102	50.0	43.3	87	69 - 125	40.9	82	6	30
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	48.1	96	81 - 120	44.6	89	8	30
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	46.5	93	83 - 119	44.0	88	6	30
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	44.0	88	87 - 123	45.1	90	2	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	45.8	92	87 - 118	44.6	89	3	30
97-63-2	Ethyl methacrylate	0.340U	0.340								
591-78-6	2-Hexanone	0.302U	0.302	50.0	42.1	84	58 - 125	45.7	91	8	30
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	47.7	95	87 - 131	45.2	90	5	30
78-93-3	2-Butanone	0.235U	0.235	50.0	46.9	94	61 - 127	45.2	90	4	30
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125	41.4	83	6	30
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	46.1	92	62 - 125	46.6	93	1	30
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	50.2	100	86 - 125	45.3	91	10	30
100-42-5	Styrene	0.058U	0.058	50.0	47.8	96	78 - 118	46.1	92	4	30
127-18-4	Tetrachloroethene	0.210U	0.210	50.0	46.9	94	80 - 131	44.3	89	6	30
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	44.3	89	81 - 119	45.3	91	2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	46.2	92	71 - 120	46.4	93	0.4	30
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	49.6	99	68 - 123	46.5	93	6	30
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	47.3	95	79 - 133	44.0	88	7	30
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	45.2	90	80 - 114	46.6	93	3	30
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	47.9	96	66 - 156	43.0	86	11	30
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	44.5	89	77 - 115	45.1	90	1	30
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	47.7	95	82 - 120	43.9	88	8	30
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	48.5	97	83 - 123	43.9	88	10	30
75-01-4	Vinyl chloride	0.104U	0.104	50.0	47.6	95	57 - 153	43.5	87	9	30
95-47-6	o-Xylene	0.077U	0.077	50.0	46.8	94	83 - 121	45.0	90	4	30
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	45.6	91	61 - 118	48.3	97	6	30
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	44.7	89	80 - 115	45.5	91	2	30
80-62-6	Methyl methacrylate	0.606U	0.606								
107-12-0	Propionitrile	3.06U	3.06								
108-05-4	Vinyl acetate	0.197U	0.197	50.0	55.1	110	38 - 159	51.0	102	8	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	43.0	86	75 - 116	42.0	84	2	30
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	51.4	103	83 - 125	44.7	89	14	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	452190	**Client ID**	MB452190			LCS452190			LCSD452190		
Prep Batch	N/A	**GCAL ID**	928095			928096			928097		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	03/10/2011 12:48			03/10/2011 11:15			03/10/2011 11:38		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
110-54-3	n-Hexane	0.126U	0.126	50.0	49.6	99	71 - 134	41.8	84	17	30
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	45.2	90	51 - 137	47.0	94	4	30
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	48.8	98	77 - 138	42.5	85	14	30
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	47.0	94	74 - 139	42.7	85	10	30
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	46.7	93	87 - 127	41.3	**83***	12	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20	50.0	50.0	100	63 - 125	48.1	96	4	30
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	47.1	94	81 - 113	46.8	94	0.6	30
108-86-1	Bromobenzene	0.095U	0.095	50.0	47.0	94	83 - 115	44.3	89	6	30
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	48.1	96	81 - 121	45.6	91	5	30
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	47.3	95	84 - 120	43.1	86	9	30
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	51.6	103	83 - 126	45.7	91	12	30
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	50.4	101	86 - 127	44.4	89	13	30
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	49.4	99	86 - 115	45.5	91	8	30
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	47.9	96	87 - 113	45.3	91	6	30
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	51.6	103	84 - 124	45.6	91	12	30
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	48.6	97	85 - 115	45.1	90	7	30
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	57.4	115	71 - 133	46.3	93	21	30
91-20-3	Naphthalene	0.175U	0.175	50.0	49.0	98	59 - 125	53.0	106	8	35
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	53.4	107	64 - 126	48.5	97	10	30
75-05-8	Acetonitrile	5.04U	5.04								
107-05-1	Allyl chloride	0.343U	0.343								
544-10-5	1-Chlorohexane	0.139U	0.139	50.0	48.1	96	87 - 128	44.3	89	8	30
76-01-7	Pentachloroethane	1.87U	1.87								
126-98-7	Methacrylonitrile	0.743U	0.743								
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	48.2	96	75 - 133	41.8	84	14	20
71-43-2	Benzene	0.049U	0.049	50.0	46.9	94	83 - 124	43.1	86	8	20
79-01-6	Trichloroethene	0.094U	0.094	50.0	48.7	97	85 - 124	45.3	91	7	20
108-88-3	Toluene	0.078U	0.078	50.0	44.2	88	86 - 116	42.9	86	3	20
108-90-7	Chlorobenzene	0.055U	0.055	50.0	47.0	94	87 - 115	46.1	92	2	20
Surrogate											
460-00-4	4-Bromofluorobenzene	51	102	50	47	94	84 - 120	50.5	101		
1868-53-7	Dibromofluoromethane	50.8	102	50	49.3	99	87 - 116	47.9	96		
2037-26-5	Toluene d8	49.6	99	50	46.7	93	86 - 112	48.8	98		

GC/MS Volatiles Quality Control Summary

Analytical Batch 452190	**Client ID**	MB452190			LCS452190			LCSD452190			
Prep Batch N/A	**GCAL ID**	928095			928096			928097			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	03/10/2011 12:48			03/10/2011 11:15			03/10/2011 11:38			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
17060-07-0 1,2-Dichloroethane-d4		50.8	102	50	50.7	101	76 - 127	48.2	96		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452408	**Client ID**	MB452066			LCS452066			LCSD452066		
Prep Batch	452066	**GCAL ID**	927388			927389			927390		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/11/2011 08:10			03/11/2011 08:10			03/11/2011 08:10		
		Analytical Date	03/14/2011 17:16			03/14/2011 17:31			03/14/2011 17:46		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L		**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.303U	0.303								
120-12-7	Anthracene	0.316U	0.316								
56-55-3	Benzo(a)anthracene	0.316U	0.316								
92-87-5	Benzidine	3.92U	3.92								
205-99-2	Benzo(b)fluoranthene	0.217U	0.217								
207-08-9	Benzo(k)fluoranthene	0.236U	0.236								
191-24-2	Benzo(g,h,i)perylene	0.215U	0.215								
50-32-8	Benzo(a)pyrene	0.125U	0.125								
65-85-0	Benzoic acid	0.910U	0.910								
85-68-7	Butyl benzyl phthalate	0.165U	0.165								
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	0.290								
111-44-4	Bis(2-Chloroethyl)ether	0.288U	0.288								
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	0.191								
101-55-3	4-Bromophenyl phenyl ether	0.337U	0.337								
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	0.268								
218-01-9	Chrysene	0.433U	0.433								
53-70-3	Dibenz(a,h)anthracene	0.217U	0.217								
132-64-9	Dibenzofuran	0.227U	0.227								
95-50-1	1,2-Dichlorobenzene	0.259U	0.259								
541-73-1	1,3-Dichlorobenzene	0.274U	0.274								
91-94-1	3,3'-Dichlorobenzidine	0.297U	0.297								
120-83-2	2,4-Dichlorophenol	0.217U	0.217								
84-66-2	Diethyl phthalate	0.303U	0.303								
105-67-9	2,4-Dimethylphenol	0.694U	0.694								
131-11-3	Dimethyl phthalate	0.255U	0.255								
117-84-0	Di-n-octyl phthalate	0.167U	0.167								
51-28-5	2,4-Dinitrophenol	2.60U	2.60								
606-20-2	2,6-Dinitrotoluene	0.352U	0.352								
206-44-0	Fluoranthene	0.267U	0.267								
86-73-7	Fluorene	0.288U	0.288								
118-74-1	Hexachlorobenzene	0.249U	0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452408	**Client ID**	MB452066			LCS452066				LCSD452066		
Prep Batch	452066	**GCAL ID**	927388			927389				927390		
Prep Method	3510C	**Sample Type**	Method Blank			LCS				LCSD		
		Prep Date	03/11/2011 08:10			03/11/2011 08:10				03/11/2011 08:10		
		Analytical Date	03/14/2011 17:16			03/14/2011 17:31				03/14/2011 17:46		
		Matrix	Water			Water				Water		
SW-846 8270C		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U		0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U		0.174								
67-72-1	Hexachloroethane	0.299U		0.299								
78-59-1	Isophorone	0.380U		0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U		0.157								
91-57-6	2-Methylnaphthalene	0.255U		0.255								
95-48-7	o-Cresol	0.329U		0.329								
91-20-3	Naphthalene	0.293U		0.293								
98-95-3	Nitrobenzene	0.329U		0.329								
88-75-5	2-Nitrophenol	0.357U		0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U		0.364								
85-01-8	Phenanthrene	0.304U		0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U		0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U		0.275								
100-51-6	Benzyl alcohol	0.355U		0.355								
99-09-2	3-Nitroaniline	0.226U		0.226								
100-01-6	4-Nitroaniline	0.221U		0.221								
84-74-2	Di-n-butyl phthalate	0.189U		0.189								
88-74-4	2-Nitroaniline	0.198U		0.198								
91-58-7	2-Chloronaphthalene	0.221U		0.221								
106-47-8	4-Chloroaniline	0.463U		0.463								
1319-77-3MP	m,p-Cresol	0.352U		0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U		1.98								
108-95-2	Phenol	0.150U		0.150	100	26.8	27	13 - 54	33.2	33	21	30
95-57-8	2-Chlorophenol	0.276U		0.276	100	74.8	75	44 - 103	86.4	86	14	30
106-46-7	1,4-Dichlorobenzene	0.255U		0.255	100	67.3	67	40 - 100	74.2	74	10	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U		0.304	100	86.2	86	51 - 104	95.6	96	10	30
120-82-1	1,2,4-Trichlorobenzene	0.234U		0.234	100	68.7	69	45 - 104	77.3	77	12	30
59-50-7	4-Chloro-3-methylphenol	0.234U		0.234	100	86.1	86	53 - 105	98.1	98	13	30
83-32-9	Acenaphthene	0.268U		0.268	100	88.2	88	58 - 106	96.4	96	9	30
100-02-7	4-Nitrophenol	1.83U		1.83	100	30.4	30	13 - 55	32.0	32	5	30
121-14-2	2,4-Dinitrotoluene	0.263U		0.263	100	101	101	60 - 109	107	107	6	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452408	**Client ID**	MB452066			LCS452066			LCSD452066		
Prep Batch	452066	**GCAL ID**	927388			927389			927390		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/11/2011 08:10			03/11/2011 08:10			03/11/2011 08:10		
		Analytical Date	03/14/2011 17:16			03/14/2011 17:31			03/14/2011 17:46		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	75.7	76	57 - 118	82.5	83	9	30
129-00-0	Pyrene	0.486U	0.486	100	75.4	75	60 - 113	85.4	85	12	30
Surrogate											
4165-60-0	Nitrobenzene-d5	40.4	81	50	42.3	85	52 - 120	47.1	94		
321-60-8	2-Fluorobiphenyl	36.1	72	50	39.1	78	16 - 128	43.7	87		
1718-51-0	Terphenyl-d14	37.4	75	50	39.1	78	43 - 138	43.4	87		
4165-62-2	Phenol-d5	26.2	26	100	30.5	31	10 - 120	35.3	35		
367-12-4	2-Fluorophenol	39.4	39	100	42.4	42	10 - 120	52.3	52		
118-79-6	2,4,6-Tribromophenol	90.3	90	100	103	103	20 - 120	113	113		

Analytical Batch	452408	**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD		
Prep Batch	452066	**GCAL ID**	21103080916			21103080919			21103080920		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/11/2011 08:10			03/11/2011 08:10			03/11/2011 08:10		
		Analytical Date	03/14/2011 20:32			03/14/2011 21:01			03/14/2011 21:16		
		Matrix	Water			Water			Water		
SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	0.234	100	68.2	68	45 - 104	70.2	70	3	28
106-46-7	1,4-Dichlorobenzene	0.00	0.255	100	64.2	64	40 - 100	66.5	67	4	28
121-14-2	2,4-Dinitrotoluene	0.00	0.263	100	103	103	60 - 109	100	100	3	20
95-57-8	2-Chlorophenol	0.00	0.276	100	76.9	77	44 - 103	77.3	77	0.5	29
59-50-7	4-Chloro-3-methylphenol	0.00	0.234	100	89.2	89	53 - 105	90.4	90	1	24
100-02-7	4-Nitrophenol	0.00	1.83	100	29.4	29	13 - 55	32.5	33	10	31
83-32-9	Acenaphthene	0.00	0.268	100	86.7	87	58 - 106	86.1	86	0.7	21
87-86-5	Pentachlorophenol	0.00	0.168	100	73.4	73	57 - 118	77.4	77	5	26
108-95-2	Phenol	0.00	0.150	100	36.5	37	13 - 54	37.4	37	2	34
129-00-0	Pyrene	0.00	0.486	100	78.7	79	60 - 113	77.5	78	2	20
621-64-7	n-Nitrosodi-n-propylamine	0.00	0.304	100	86.7	87	51 - 104	85.2	85	2	28
Surrogate											
4165-60-0	Nitrobenzene-d5	42.1	84	50	41.8	84	52 - 120	42.9	86		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	452408	**Client ID**	AOCU-SW03	AOCU-SW03-MS	AOCU-SW03-MSD
Prep Batch	452066	**GCAL ID**	21103080916	21103080919	21103080920
Prep Method	3510C	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	03/11/2011 08:10	03/11/2011 08:10	03/11/2011 08:10
		Analytical Date	03/14/2011 20:32	03/14/2011 21:01	03/14/2011 21:16
		Matrix	Water	Water	Water

SW-846 8270C Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
321-60-8	2-Fluorobiphenyl	36.4	73	50	39.3	79	16 - 128	38.8	78		
1718-51-0	Terphenyl-d14	40.6	81	50	39.4	79	43 - 138	35.4	71		
4165-62-2	Phenol-d5	35.4	35	100	40	40	10 - 120	40.9	41		
367-12-4	2-Fluorophenol	44.4	44	100	48.5	49	10 - 120	47.9	48		
118-79-6	2,4,6-Tribromophenol	90.8	91	100	104	104	20 - 120	100	100		

General Chromatography Quality Control Summary

Analytical Batch	452370	**Client ID**	MB452067			LCS452067			LCSD452067		
Prep Batch	452067	**GCAL ID**	927391			927392			927393		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/11/2011 12:30			03/11/2011 12:30			03/11/2011 12:30		
		Analytical Date	03/11/2011 16:22			03/11/2011 16:40			03/11/2011 16:58		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	917	92	50 - 150	775	77	17	40
Surrogate												
84-15-1	o-Terphenyl		42	84	50	51.4	103	57 - 115	38.7	77		

Analytical Batch	452370	**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD		
Prep Batch	452067	**GCAL ID**	21103080916			21103080919			21103080920		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/11/2011 12:30			03/11/2011 12:30			03/11/2011 12:30		
		Analytical Date	03/11/2011 21:27			03/11/2011 22:38			03/11/2011 23:31		
		Matrix	Water			Water			Water		
Total Hydrocarbons Diesel Wate		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		42.3	44.2	1000	954	91	50 - 150	830	79	14	30
Surrogate												
84-15-1	o-Terphenyl		67.4	**135***	50	49.2	98	57 - 115	46	92		

Analytical Batch	452487	**Client ID**	MB452354			LCS452354			LCSD452354		
Prep Batch	452354	**GCAL ID**	928745			928746			928747		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/14/2011 16:00			03/14/2011 16:00			03/14/2011 16:00		
		Analytical Date	03/15/2011 09:47			03/15/2011 10:05			03/15/2011 10:23		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	865	87	50 - 150	835	83	4	40
Surrogate												
84-15-1	o-Terphenyl		44.4	89	50	55.5	111	57 - 115	49.9	100		

General Chromatography Quality Control Summary

Analytical Batch 452334	**Client ID**	MB452334			LCS452334		
Prep Batch N/A	**GCAL ID**	928694			928695		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/13/2011 18:36			03/13/2011 17:48		
	Matrix	Water			Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	504	101	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	25.6	85	30	27.8	93	49 - 136

Analytical Batch 452334	**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD			
Prep Batch N/A	**GCAL ID**	21103080916			21103080919			21103080920			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/14/2011 03:04			03/14/2011 03:56			03/14/2011 04:20			
	Matrix	Water			Water			Water			
SW-846 8015B Modified Water		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics	0.00	13.0	500	439	88	67 - 171	421	84	4	31
Surrogate											
106-39-8	Bromochlorobenzene	27.8	93	30	29.3	98	49 - 136	29	97		

General Chromatography Quality Control Summary

Analytical Batch	452371	**Client ID**	MB452068			LCS452068			LCSD452068		
Prep Batch	452068	**GCAL ID**	927394			927395			927396		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/11/2011 12:30			03/11/2011 12:30			03/11/2011 12:30		
		Analytical Date	03/11/2011 16:22			03/11/2011 17:16			03/11/2011 17:34		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1310	65	50 - 150	1350	67	3	40
Surrogate												
84-15-1	o-Terphenyl		39.4	79	50	45	90	57 - 115	42.3	85		

Analytical Batch	452371	**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD		
Prep Batch	452068	**GCAL ID**	21103080916			21103080919			21103080920		
Prep Method	3510C	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	03/11/2011 12:30			03/11/2011 12:30			03/11/2011 12:30		
		Analytical Date	03/11/2011 21:27			03/11/2011 22:02			03/11/2011 22:20		
		Matrix	Water			Water			Water		
Total Hydrocarbons Oil Water		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		20.1	45.7	2000	1510	74	50 - 150	1600	79	6	30
Surrogate												
84-15-1	o-Terphenyl		63.3	**127***	50	44.2	88	57 - 115	44.4	89		

Analytical Batch	452488	**Client ID**	MB452377			LCS452377			LCSD452377		
Prep Batch	452377	**GCAL ID**	928824			928825			928826		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	03/14/2011 16:00			03/14/2011 16:00			03/14/2011 16:00		
		Analytical Date	03/15/2011 09:47			03/15/2011 10:40			03/15/2011 10:58		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1540	77	50 - 150	1730	87	12	40
Surrogate												
84-15-1	o-Terphenyl		41.7	83	50	48.2	96	57 - 115	49.8	100		

Inorganics Quality Control Summary

Analytical Batch	452103	**Client ID**	MB452014	LCS452014
Prep Batch	452014	**GCAL ID**	927151	927152
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	7470A	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/09/2011 12:55	03/09/2011 12:57
		Matrix	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**			**Control**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00460	92	88 - 111

Analytical Batch	452103	**Client ID**	AOCU-SW03-M	AOCU-SW03-M-MS	AOCU-SW03-M-MSD
Prep Batch	452014	**GCAL ID**	21103080938	21103080940	21103080941
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	7470A	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15	03/08/2011 11:15
	Dissolved	**Analytical Date**	03/09/2011 12:59	03/09/2011 13:00	03/09/2011 13:02
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**			**Control**				
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
7439-97-6	Mercury	0.00000	0.000081	0.00500	0.00328	**66***	75 - 125	0.00297	**59***	10	10

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	MB452012	LCS452012
Prep Batch	452012	**GCAL ID**	927145	927146
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS
	Dissolved	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/09/2011 00:33	03/09/2011 00:41
		Matrix	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.65	93	87 - 111
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.46	92	88 - 108
7440-38-2	Arsenic	0.0025U	0.0025	0.50	0.47	95	88 - 109
7440-39-3	Barium	0.00062B	0.00011	0.50	0.46	93	92 - 112
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.45	90	89 - 113
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.46	92	88 - 111
7440-70-2	Calcium	0.026U	0.026	5.00	4.60	92	90 - 111
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.45	91	90 - 113
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.46	92	89 - 111
7440-50-8	Copper	0.0014U	0.0014	0.50	0.43	87	86 - 112
7439-89-6	Iron	0.038U	0.038	5.00	4.58	92	89 - 116
7439-92-1	Lead	0.0014U	0.0014	0.50	0.47	94	89 - 109
7439-95-4	Magnesium	0.018B	0.014	5.00	4.42	**88***	92 - 113
7439-96-5	Manganese	0.0012U	0.0012	0.50	0.46	91	90 - 110
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.46	92	89 - 111
7440-09-7	Potassium	0.053U	0.053	10.0	9.59	96	89 - 114
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.47	94	90 - 110
7440-22-4	Silver	0.00060U	0.00060	0.50	0.47	94	86 - 120
7440-23-5	Sodium	0.95B	0.051	20.0	19.4	97	90 - 117
7440-28-0	Thallium	0.0018U	0.0018	0.50	0.47	95	88 - 108
7440-62-2	Vanadium	0.00082U	0.00082	0.50	0.45	**90***	91 - 111
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.45	90	84 - 111

Inorganics Quality Control Summary

Analytical Batch	452019	**Client ID**	AOCU-SW03-M	AOCU-SW03-M-MS	AOCU-SW03-M-MSD
Prep Batch	452012	**GCAL ID**	21103080938	21103080940	21103080941
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/09/2011 00:47	03/09/2011 00:53	03/09/2011 01:00
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.12	0.22	5.00	4.77	93	83 - 119	4.59	89	4	25
7440-36-0	Antimony	0.028	0.020	0.50	0.55	104	81 - 124	0.53	101	3	25
7440-38-2	Arsenic	0.010	0.013	0.50	0.57	113	84 - 124	0.53	104	8	25
7440-39-3	Barium	0.0	0.00055	0.50	0.49	97	85 - 120	0.46	91	6	25
7440-41-7	Beryllium	0.00013	0.00057	0.50	0.50	99	79 - 121	0.47	95	5	25
7440-43-9	Cadmium	0.0	0.00055	0.50	0.48	95	82 - 119	0.45	90	6	25
7440-70-2	Calcium	842	0.13	5.00	880	**753***	48 - 153	856	**276***	3	25
7440-47-3	Chromium	0.0075	0.0017	0.50	0.48	94	73 - 135	0.45	89	6	25
7440-48-4	Cobalt	0.0	0.0020	0.50	0.48	97	82 - 119	0.46	92	5	25
7440-50-8	Copper	0.14	0.0069	0.50	0.63	98	82 - 129	0.61	94	3	25
7439-89-6	Iron	0.042	0.19	5.00	4.76	94	52 - 155	4.57	91	4	25
7439-92-1	Lead	0.0	0.0070	0.50	0.47	95	62 - 146	0.44	88	8	25
7439-95-4	Magnesium	1300	0.072	5.00	1470	**3400***	62 - 146	1420	**2540***	3	25
7439-96-5	Manganese	0.080	0.0062	0.50	0.54	92	79 - 121	0.53	90	1	25
7440-02-0	Nickel	0.047	0.0048	0.50	0.51	93	84 - 120	0.48	87	6	25
7440-09-7	Potassium	49.5	0.26	10.0	70.2	**206***	76 - 132	68.0	**185***	3	25
7782-49-2	Selenium	0.0	0.022	0.50	0.53	105	71 - 140	0.48	96	9	25
7440-22-4	Silver	0.0	0.0030	0.50	0.53	107	75 - 141	0.51	101	5	25
7440-28-0	Thallium	0.0	0.0088	0.50	0.45	90	90 - 116	0.40	**80***	13	25
7440-62-2	Vanadium	0.0	0.0041	0.50	0.33	**67***	85 - 120	0.34	**69***	3	25
7440-66-6	Zinc	0.059	0.014	0.50	0.53	94	60 - 137	0.50	88	5	25

Analytical Batch	452270	**Client ID**	AOCU-SW03-M	AOCU-SW03-M-MS	AOCU-SW03-M-MSD
Prep Batch	452012	**GCAL ID**	21103080938	21103080940	21103080941
Prep Method	SW-846 3005	**Sample Type**	SAMPLE	MS	MSD
	Dissolved	**Prep Date**	03/08/2011 11:15	03/08/2011 11:15	03/08/2011 11:15
		Analytical Date	03/11/2011 11:54	03/11/2011 12:01	03/11/2011 12:08
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	6510	2.57	20.0	7590	**5420***	70 - 203	7610	**5500***	0.2	25

Inorganics Quality Control Summary

Analytical Batch	452215	**Client ID**	MB452017			LCS452017			LCSD452017		
Prep Batch	452017	**GCAL ID**	927161			927162			927821		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS			LCSD		
	3010A	**Prep Date**	03/08/2011 11:40			03/08/2011 11:40			03/09/2011 10:00		
		Analytical Date	03/11/2011 12:27			03/11/2011 12:34			03/11/2011 12:42		
		Matrix	Water			Water			Water		
SM 2340B Hardness			**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
			Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium		0.051B	0.0093	5.00	4.69	94	80 - 120	4.58	92	2	
7439-95-4	Magnesium		0.024U	0.024	5.00	4.71	94	80 - 120	4.59	92	3	
000-01-5	Hardness		0.13B	0.12	33.1	31.1	94	80 - 120	30.3	92	3	

Analytical Batch	452215	**Client ID**	AOCU-SW03		AOCU-SW03-DUP		
Prep Batch	452017	**GCAL ID**	21103080916		21103080921		
Prep Method	SM 2340 B	**Sample Type**	SAMPLE		DUP		
		Prep Date	03/08/2011 11:40		03/08/2011 15:00		
		Analytical Date	03/11/2011 12:49		03/11/2011 12:57		
		Matrix	Water		Water		
SM 2340B Hardness			**Units**	mg/L	**Result**		**RPD**
			Result	**RDL**		**RPD**	**Limit**
7440-70-2	Calcium		879.27448	0.019	846	4	20
000-01-5	Hardness		8029.05685	0.24	7620	5	20
7439-95-4	Magnesium		1416.58778	0.048	1340	6	20

General Chemistry Quality Control Summary

Analytical Batch 452044	**Client ID**	MB452044			LCS452044		
Prep Batch N/A	**GCAL ID**	927341			927342		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/08/2011 14:50			03/08/2011 14:50		
	Matrix	Water			Water		
SM 2540C TDS		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
WET-035	Total Dissolved Solids(TDS)	10.0U	10.0	1000	962	96.2	90 - 110

Analytical Batch 452044	**Client ID**	AOCU-SW03		AOCU-SW03-DUP		
Prep Batch N/A	**GCAL ID**	21103080916		21103080921		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/08/2011 14:50		03/08/2011 14:50		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	20400	100	20800	1.9	5

Analytical Batch 452044	**Client ID**	TK-470		927095DUP		
Prep Batch N/A	**GCAL ID**	21103081301		927343		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/08/2011 14:50		03/08/2011 14:50		
	Matrix	Water		Water		
SM 2540C TDS		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-035	Total Dissolved Solids(TDS)	140	10.0	138	1.4	5

General Chemistry Quality Control Summary

Analytical Batch 452015	**Client ID**	MB452015			LCS452015		
Prep Batch N/A	**GCAL ID**	927153			927154		
	Sample Type	Method Blank			LCS		
	Analytical Date	03/08/2011 11:29			03/08/2011 11:30		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.518	104	89.5 -110.5

Analytical Batch 452015	**Client ID**	AOCU-SW03			AOCU-SW03-MS			AOCU-SW03-MSD			
Prep Batch N/A	**GCAL ID**	21103080916			21103080919			21103080920			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/08/2011 12:04			03/08/2011 12:05			03/08/2011 12:06			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.938	0.013	2.50	3.68	109	89.5 -110.5	3.66	109	0.4	25

Analytical Batch 452015	**Client ID**	AOCU-GW12			927072MS			927072MSD			
Prep Batch N/A	**GCAL ID**	21103080905			927155			927156			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	03/08/2011 11:31			03/08/2011 11:32			03/08/2011 11:34			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		16.6	0.130	25.0	44.0	110	89.5 -110.5	43.8	109	0.5	25

General Chemistry Quality Control Summary

Analytical Batch 452059	**Client ID**	AOCU-SW03		AOCU-SW03-DUP		
Prep Batch N/A	**GCAL ID**	21103080916		21103080921		
	Sample Type	SAMPLE		DUP		
	Analytical Date	03/08/2011 16:30		03/08/2011 16:30		
	Matrix	Water		Water		
SM 4500 H+B/SW-846 9040 pH		**Units**	pH unit	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
pH	pH	7.66	1.00	7.64	0.3	6

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Project No: 8090006.02.010

COC Number(1): 030711-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW10	AOCU-GW10	04032011	1415	-	N	1	WG	10	X	X	X	X		X	X							4			2
AOCU-GW12	AOCU-GW12	04032011	1310	-	N	1	WG	10	X	X	X	X		X	X							5			2
Trip Blank		04032011	1310	-	TB	1	WQ	3	X													6	HA-025611		2
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Jeff Moore	3/7/11	1400			
2.	[illegible]	3-8-11	857	[illegible]	3-8-11	857
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 2 6

Airbill Number: 794499620155

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Project No: 8090006.02.010

COC Number(1): 030711-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW05	AOCU-GW05	05032011	1200	-	N	1	WG	10	X	X	X	X		X	X							7			3
AOCU-GW07	AOCU-GW07	05032011	1030	-	N	1	WG	10	X	X	X	X		X	X							8			3
Trip Blank	~~A-Jm~~	05032011	1030	-	TB	1	WQ	3	X													9	HA	025611	3
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/7/11	1400			
2.	Frank [signature]	3-8-11	855	[signature]	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.4

Airbill Number: 794499618317

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030711-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW03	AOCU-GW03	05032011	1135	-	N	1	WG	10	X	X	X	X		X	X						10			4
AOCU-GW08	AOCU-GW08	05032011	1010	-	N	1	WG	10	X	X	X	X		X	X						11			4
Trip Blank		05032011	1010	-	TB	1	WQ	3	X												12	HA-025611		4
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/7/11	1400			
2.	[signature]	3-8-11	855	[signature]	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.2

Airbill Number: 796836998609

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030711-05

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW01	AOCU-GW01	05032011	1415	-	N	1	WG	10	X	X	X	X		X	X						13			5
AOCU-GW02	AOCU-GW02	05032011	1320	-	N	1	WG	10	X	X	X	X		X	X						14			5
Trip Blank		05032011	1320	-	TB	1	WQ	3	X												15	HA-0285050		5
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/7/11	1400			
2.	[signature]	3-8-11	855	[signature]	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1.9

Airbill Number: 794499612926

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030711-06

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)	pH (9040A)	Hardness (2340B)					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-SW03	AOCU-SW03	06032011	0850	-	N	1	WS	11	X	X	X	X		X	X	X	X					16			6
AOCU-SW03-A	AOCU-SW03-A	06032011	0850	-	FD	1	WS	11	X	X	X	X		X	X	X	X					17			6
Trip Blank		06032011	0850	-	TB	1	WQ	3	X													18	MA-025611		6
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	3/7/11	1400			
2.	[illegible]	3-8-11	855	[illegible]	3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 1-9

Airbill Number: 794499610978

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030711-07

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)	pH (9040A)	Hardness (2340B)					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-SW03-MS	AOCU-SW03-MS	06032011	0850	-	MS	1	WS	11	X	X	X	X		X	X	X	X					19			7
AOCU-SW03-MSD	AOCU-SW03-MSD	06032011	0850	-	SD	1	WS	11	X	X	X	X		X	X	X	X					20	21		7
Trip Blank		06032011	0850	-	TB	1	WQ	3	X													22		HA-025611	7
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/7/11	1400	1.		
2. Fdx	3-8-11	855	2. K	3-8-11	855
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 5.6

Airbill Number: 796836992140

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030711-08

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)	pH (9040A)	Hardness (2340B)					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-SW01	AOCU-SW01	06032011	1040	-	N	1	WS	11	X	X	X	X		X	X	X	X					23			8
AOCU-SW02	AOCU-SW02	06032011	1000	-	N	1	WS	11	X	X	X	X		X	X	X	X					24			8
Trip Blank		06032011	1000	-	TB	1	WQ	3	X													25	HA025611		8
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Murre	3/7/11	1400			
2.	Fedex	3-8-11	855		3-8-11	855
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 4-5

Airbill Number: 794499608084

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW 14171/211030869/3154

Project No: 8090006.02.010

COC Number(1): 030711-09

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW01-M	AOCU-GW01	05032011	1416	-	N	1	WG	1					X										26	9
AOCU-GW02-M	AOCU-GW02	05032011	1321	-	N	1	WG	1					X										27	9
AOCU-GW03-M	AOCU-GW03	05032011	1136	-	N	1	WG	1					X										28	9
AOCU-GW05-M	AOCU-GW05	05032011	1201	-	N	1	WG	1					X										29	9
AOCU-GW07-M	AOCU-GW07	05032011	1031	-	N	1	WG	1					X										30	9
AOCU-GW08-M	AOCU-GW08	05032011	1011	-	N	1	WG	1					X										31	9
AOCU-GW10-M	AOCU-GW10	04032011	1416	-	N	1	WG	1					X										32	9
AOCU-GW12-M	AOCU-GW12	04032011	1311	-	N	1	WG	1					X										33	9
AOCU-GW15-M	AOCU-GW15	04032011	1531	-	N	1	WG	1					X										34	9
AOCU-GW17-M	AOCU-GW17	04032011	1346	-	N	1	WG	1					X										35	9
AOCU-GW19 *	AOCU-GW19	04032011	0921	-	N	1	WG	1					X											9

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/7/11	1400	1.		
2. [illegible]	3-8-11	855	2. [illegible]	3-8-11	855
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.: 42

Airbill Number: 7944 9960 6688

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* sample is a ~~the~~ a
equipment with on

NATIONVIEW/4771/211030809/3-15-1

Project No: 8090006.02.010

COC Number(1): 030711-09

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	TDS (2540C)						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW20 *	AOCU-GW20	04032011	0946	-	N	1	WG	1					X											9
AOCU-GW22 *	AOCU-GW22	04032011	1046	-	N	1	WG	1					X											9
AOCU-GW24 *	AOCU-GW24	04032011	1051	-	N	1	WG	1					X											9
AOCU-GW24-A *	AOCU-GW24-A	04032011	1051	-	FD	1	WG	1					X											9
AOCU-SW01-M	AOCU-SW01	06032011	1041	-	N	1	WS	1					X										36	9
AOCU-SW02-M	AOCU-SW02	06032011	1001	-	N	1	WS	1					X										37	9
AOCU-SW03-M	AOCU-SW03	06032011	0851	-	N	1	WS	1					X										38	9
AOCU-SW03-A-M	AOCU-SW03-A	06032011	0851	-	FD	1	WS	1					X									39	~~40~~	9
AOCU-SW03-MS-M	AOCU-SW03-MS	06032011	0851	-	MS	1	WS	1					X										40	9
AOCU-SW03-MSD-M	AOCU-SW03-MSD	06032011	0851	-	SD	1	WS	1					X										41	9
				-			JM	✓																

Sample Analysis Requested (5) — Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	3/7/11	1400	1.		
2. Fedex	3-8-11	855	2. [illegible]	3-8-11	855
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.: 4.7

Method of Shipment: FedEx Express Airbill Number:

Analytical Lab: GCAL Delivery Location: Baton Rouge, LA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

* samples were a equipment water

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211030809

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Raborn, Michelle

Received Date/Time: 3/8/2011 8:55:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 9

Cooler tracking numbers(s): 7944 9461 0978 7968 3692 180 7944 9960 3084 7944 9960 6688 7944 9462 2754 7944 9962 0155 7944 9961 8317 7968 3699 8609 7944 9961 2926

Cooler temperature(s): 2.8 2.6 1.4 1.2 1.9 1.9 5.6 4.4 4.2

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples recevied in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☐ N/A

Notes/Comments:

ANALYTICAL REPORT

Job Number: 680-66093-1

Job Description: AOC-U, RFI Investigation

For:
NationView LLC
1608 13th Avenue South
Suite 160
Birmingham, AL 35205

Attention: David Martin

Approved for release.
Linda Wolfe
Project Manager I
3/17/2011 3:52 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com
03/17/2011

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Receipt
All samples were received in good condition within temperature requirements.

LCMS
Method(s) 6860: After one injection of the samples undiluted the IC system over pressured. It was determined that the samples have a high level of dissolved salts from the conductivity detector readout on the IC. So in order to preserve the integrity of the system all samples were diluted for matrix prior to injection.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: NationView LLC

Job Number: 680-66093-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-66093-1	**AOCU-GW75**					
Perchlorate		0.31	J	0.50	ug/L	6860
680-66093-2	**AOCU-GW75-A**					
Perchlorate		0.30	J	0.50	ug/L	6860
680-66093-3	**AOCU-GW77**					
Perchlorate		1.1		0.50	ug/L	6860
680-66093-4	**AOCU-GW78**					
Perchlorate		0.18	J	0.50	ug/L	6860
680-66093-5	**AOCU-GW80**					
Perchlorate		0.43	J	0.50	ug/L	6860
680-66093-6	**AOCU-GW82**					
Perchlorate		1.0		0.50	ug/L	6860
680-66093-8	**AOCU-GW93**					
Perchlorate		2.8		2.5	ug/L	6860
680-66093-9	**AOCU-GW96**					
Perchlorate		0.14	J	0.50	ug/L	6860
680-66093-10	**AOCU-GW98**					
Perchlorate		0.78		0.50	ug/L	6860
680-66093-11	**AOCU-GW100**					
Perchlorate		0.15	J	0.50	ug/L	6860

METHOD / ANALYST SUMMARY

Client: NationView LLC

Job Number: 680-66093-1

Method	Analyst	Analyst ID
EPA 6860	Bonnett, Jaqueline C	JCB

SAMPLE SUMMARY

Client: NationView LLC

Job Number: 680-66093-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-66093-1	AOCU-GW75	Water	02/28/2011 1515	03/02/2011 0927
680-66093-2	AOCU-GW75-A	Water	02/28/2011 1515	03/02/2011 0927
680-66093-3	AOCU-GW77	Water	02/28/2011 1410	03/02/2011 0927
680-66093-4	AOCU-GW78	Water	02/28/2011 1320	03/02/2011 0927
680-66093-5	AOCU-GW80	Water	02/28/2011 1100	03/02/2011 0927
680-66093-6	AOCU-GW82	Water	02/28/2011 1015	03/02/2011 0927
680-66093-7	AOCU-GW83	Water	02/28/2011 0920	03/02/2011 0927
680-66093-8	AOCU-GW93	Water	02/28/2011 1200	03/02/2011 0927
680-66093-9	AOCU-GW96	Water	02/28/2011 1030	03/02/2011 0927
680-66093-10	AOCU-GW98	Water	02/28/2011 1500	03/02/2011 0927
680-66093-10MS	AOCU-GW98	Water	02/28/2011 1500	03/02/2011 0927
680-66093-10MSD	AOCU-GW98	Water	02/28/2011 1500	03/02/2011 0927
680-66093-11	AOCU-GW100	Water	02/28/2011 0915	03/02/2011 0927

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW75**

Lab Sample ID: 680-66093-1

Client Matrix: Water

Date Sampled: 02/28/2011 1515

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1129.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 1901		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.31	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW75-A**

Lab Sample ID: 680-66093-2

Client Matrix: Water

Date Sampled: 02/28/2011 1515

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1130.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 1929		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.30	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW77**

Lab Sample ID: 680-66093-3

Client Matrix: Water

Date Sampled: 02/28/2011 1410

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1131.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 1958		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	1.1		0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW78**

Lab Sample ID: 680-66093-4

Client Matrix: Water

Date Sampled: 02/28/2011 1320

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1132.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 2026		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.18	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW80**

Lab Sample ID: 680-66093-5

Client Matrix: Water

Date Sampled: 02/28/2011 1100

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1136.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 2220		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.43	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW82**

Lab Sample ID: 680-66093-6

Client Matrix: Water

Date Sampled: 02/28/2011 1015

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1137.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 2248		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	1.0		0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW83**

Lab Sample ID: 680-66093-7

Client Matrix: Water

Date Sampled: 02/28/2011 0920

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1138.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 2316		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.20	U	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW93**

Lab Sample ID: 680-66093-8

Client Matrix: Water

Date Sampled: 02/28/2011 1200

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1139.d
Dilution:	50		Initial Weight/Volume:	5 mL
Date Analyzed:	03/11/2011 2345		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	2.8		0.44	2.5

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW96**

Lab Sample ID: 680-66093-9

Client Matrix: Water

Date Sampled: 02/28/2011 1030

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1140.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 0013		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.14	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW98**

Lab Sample ID: 680-66093-10

Client Matrix: Water

Date Sampled: 02/28/2011 1500

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1141.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 0042		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.78		0.088	0.50

Client: NationView LLC

Job Number: 680-66093-1

Client Sample ID: **AOCU-GW100**

Lab Sample ID: 680-66093-11

Client Matrix: Water

Date Sampled: 02/28/2011 0915

Date Received: 03/02/2011 0927

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57235	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1144.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 0207		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.15	J	0.088	0.50

DATA REPORTING QUALIFIERS

Client: NationView LLC

Job Number: 680-66093-1

Lab Section	Qualifier	Description
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.

Client: NationView LLC

Job Number: 680-66093-1

Method Blank - Batch: 280-57235

Method: 6860
Preparation: N/A

Lab Sample ID: MB 280-57235/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2011 1639
Date Prepared: N/A

Analysis Batch: 280-57235
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11c1124.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-57235

Method: 6860
Preparation: N/A

LCS Lab Sample ID: LCS 280-57235/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2011 1707
Date Prepared: N/A

Analysis Batch: 280-57235
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11c1125.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

LCSD Lab Sample ID: LCSD 280-57235/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/11/2011 1736
Date Prepared: N/A

Analysis Batch: 280-57235
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11c1126.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Perchlorate	105	96	80 - 120	8	15		J

Client: NationView LLC

Job Number: 680-66093-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-57235

Method: 6860
Preparation: N/A

LCS Lab Sample ID:	LCS 280-57235/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-57235/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	03/11/2011 1707			Date Analyzed:	03/11/2011 1736
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Perchlorate	0.0500	0.0500	0.0523	0.0481	J

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57235

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66093-10	Analysis Batch:	280-57235	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	IC11c1142.d
Dilution:	10			Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 0110			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

MSD Lab Sample ID:	680-66093-10	Analysis Batch:	280-57235	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	IC11c1143.d
Dilution:	10			Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 0138			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Perchlorate	90	89	80 - 120	0	15		

Client: NationView LLC

Job Number: 680-66093-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57235

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66093-10	Units: ug/L	MSD Lab Sample ID:	680-66093-10
Client Matrix:	Water		Client Matrix:	Water
Dilution:	10		Dilution:	10
Date Analyzed:	03/12/2011 0110		Date Analyzed:	03/12/2011 0138
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Perchlorate	0.78	0.500	0.500	1.22	1.22

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030111-01

LIMS Number: 680-66093

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Perchlorate (6860)												Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW75	AOCU-GW75	28022011	1515	-	N	1	WG	1	X															1
AOCU-GW75-A	AOCU-GW75-A	28022011	1515	-	FD	1	WG	1	X															1
AOCU-GW77	AOCU-GW77	28022011	1410	-	N	1	WG	1	X															1
AOCU-GW78	AOCU-GW78	28022011	1320	-	N	1	WG	1	X															1
AOCU-GW80	AOCU-GW80	28022011	1100	-	N	1	WG	1	X															1
AOCU-GW82	AOCU-GW82	28022011	1015	-	N	1	WG	1	X															1
AOCU-GW83	AOCU-GW83	28022011	0920	-	N	1	WG	1	X															1
AOCU-GW93	AOCU-GW93	28022011	1200	-	N	1	WG	1	X															1
AOCU-GW96	AOCU-GW96	28022011	1030	-	N	1	WG	1	X															1
AOCU-GW98	AOCU-GW98	28022011	1500	-	N	1	WG	1	X															1
AOCU-GW98-MS	AOCU-GW98-MS	28022011	1500	-	MS	1	WG	1	X															1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J.H. Moore	3/1/11	1400	Beth A Daughtry	03/02/11	0907
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: Test America

Lab Recipient:

Shipped No.:

Airbill Number: 7968 1529 8196

Delivery Location: Savannah, GA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Temp 2.2

03/17/2011

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030111-01

LIMS Number: 680-66093

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Perchlorate (6860)													Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW98-MSD	AOCU-GW98-MSD	28022011	1500	-	SD	1	WG	1	X																1
AOCU-GW100	AOCU-GW100	28022011	0915	-	N	1	WG	1	X																1
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [signature]	3/1/11	1400	1. Beth A. Daughtry	03/02/11	0927
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: FedEx Express Airbill Number: 7968 1529 8196

Analytical Lab: Test America Delivery Location: Savannah, GA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Temp 2.2

Login Sample Receipt Checklist

Client: NationView LLC

Job Number: 680-66093-1

Login Number: 66093
List Number: 1
Creator: Paulsen, Lindsay T

List Source: TestAmerica Denver
List Creation: 03/04/11 06:24 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 680-66162-1

Job Description: AOC-U, RFI Investigation

For:
NationView LLC
1608 13th Avenue South
Suite 160
Birmingham, AL 35205

Attention: David Martin

Approved for release.
Linda Wolfe
Project Manager I
3/17/2011 4:49 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com
03/17/2011

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-66162-1

Receipt
All samples were received in good condition within temperature requirements.

LCMS
Method(s) 6860: After one injection of the samples at 1x dilution the IC system over pressured. It was determined that the samples have a high level of dissolved salts from the conductivity detector readout on the IC. In order to preserve the integrity of the system all samples were diluted for matrix prior to injection.

EXECUTIVE SUMMARY - Detections

Client: NationView LLC

Job Number: 680-66162-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-66162-1	**AOCU-GW68**					
Perchlorate		2.8		0.50	ug/L	6860
680-66162-2	**AOCU-GW69**					
Perchlorate		14		5.0	ug/L	6860
680-66162-3	**AOCU-GW69-A**					
Perchlorate		13		5.0	ug/L	6860
680-66162-4	**AOCU-GW71**					
Perchlorate		15		5.0	ug/L	6860
680-66162-5	**AOCU-GW72**					
Perchlorate		0.18	J	0.25	ug/L	6860
680-66162-6	**AOCU-GW73**					
Perchlorate		2.1		0.50	ug/L	6860
680-66162-7	**AOCU-GW84**					
Perchlorate		13		5.0	ug/L	6860
680-66162-8	**AOCU-GW86**					
Perchlorate		0.67		0.50	ug/L	6860
680-66162-9	**AOCU-GW89**					
Perchlorate		3.6		1.0	ug/L	6860
680-66162-10	**AOCU-GW91**					
Perchlorate		42		5.0	ug/L	6860

METHOD / ANALYST SUMMARY

Client: NationView LLC

Job Number: 680-66162-1

Method	Analyst	Analyst ID
EPA 6860	Bonnett, Jaqueline C	JCB

SAMPLE SUMMARY

Client: NationView LLC

Job Number: 680-66162-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-66162-1	AOCU-GW68	Water	03/01/2011 1530	03/03/2011 0918
680-66162-2	AOCU-GW69	Water	03/01/2011 1250	03/03/2011 0918
680-66162-3	AOCU-GW69-A	Water	03/01/2011 1250	03/03/2011 0918
680-66162-4	AOCU-GW71	Water	03/01/2011 1420	03/03/2011 0918
680-66162-5	AOCU-GW72	Water	03/01/2011 1400	03/03/2011 0918
680-66162-6	AOCU-GW73	Water	03/01/2011 1300	03/03/2011 0918
680-66162-7	AOCU-GW84	Water	03/01/2011 0920	03/03/2011 0918
680-66162-8	AOCU-GW86	Water	03/01/2011 1055	03/03/2011 0918
680-66162-9	AOCU-GW89	Water	03/01/2011 0900	03/03/2011 0918
680-66162-10	AOCU-GW91	Water	03/01/2011 1000	03/03/2011 0918

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW68**

Lab Sample ID: 680-66162-1

Client Matrix: Water

Date Sampled: 03/01/2011 1530

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1218.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1236		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	2.8		0.088	0.50

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW69**

Lab Sample ID: 680-66162-2

Client Matrix: Water

Date Sampled: 03/01/2011 1250

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1221.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1402		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	14		0.88	5.0

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW69-A**

Lab Sample ID: 680-66162-3

Client Matrix: Water

Date Sampled: 03/01/2011 1250

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1222.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1430		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	13		0.88	5.0

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW71**

Lab Sample ID: 680-66162-4

Client Matrix: Water

Date Sampled: 03/01/2011 1420

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1226.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1623		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	15		0.88	5.0

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW72**

Lab Sample ID: 680-66162-5

Client Matrix: Water

Date Sampled: 03/01/2011 1400

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1227.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1652		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.18	J	0.044	0.25

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW73**

Lab Sample ID: 680-66162-6

Client Matrix: Water

Date Sampled: 03/01/2011 1300

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1228.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1720		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	2.1		0.088	0.50

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW84**

Lab Sample ID: 680-66162-7

Client Matrix: Water

Date Sampled: 03/01/2011 0920

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1229.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1749		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	13		0.88	5.0

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW86**

Lab Sample ID: 680-66162-8

Client Matrix: Water

Date Sampled: 03/01/2011 1055

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1230.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1817		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.67		0.088	0.50

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW89**

Lab Sample ID: 680-66162-9

Client Matrix: Water

Date Sampled: 03/01/2011 0900

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1231.d
Dilution:	20		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1845		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	3.6		0.18	1.0

Client: NationView LLC

Job Number: 680-66162-1

Client Sample ID: **AOCU-GW91**

Lab Sample ID: 680-66162-10

Client Matrix: Water

Date Sampled: 03/01/2011 1000

Date Received: 03/03/2011 0918

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57236	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1232.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1914		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	42		0.88	5.0

DATA REPORTING QUALIFIERS

Client: NationView LLC

Job Number: 680-66162-1

Lab Section	Qualifier	Description
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	U	Undetected at the Limit of Detection.

Client: NationView LLC

Job Number: 680-66162-1

Detection Limit Check Standard - Batch: 280-55961

Method: 6860
Preparation: N/A

Lab Sample ID:	DLCK 280-55961/10	Analysis Batch:	280-55961	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c0510b.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/05/2011 1813			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0521	104	70 - 130	

Client: NationView LLC

Job Number: 680-66162-1

Method Blank - Batch: 280-57236

Method: 6860
Preparation: N/A

Lab Sample ID:	MB 280-57236/4	Analysis Batch:	280-57236	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1215.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1111			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample - Batch: 280-57236

Method: 6860
Preparation: N/A

Lab Sample ID:	LCS 280-57236/5	Analysis Batch:	280-57236	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1216.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1140			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0498	100	80 - 120	J

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57236

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66162-1	Analysis Batch:	280-57236	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1219.d
Dilution:	10			Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1305			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

MSD Lab Sample ID:	680-66162-1	Analysis Batch:	280-57236	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1220.d
Dilution:	10			Initial Weight/Volume:	5 mL
Date Analyzed:	03/12/2011 1333			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Perchlorate	81	90	80 - 120	1	15	4	4

Client: NationView LLC

Job Number: 680-66162-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57236

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66162-1	Units: ug/L	MSD Lab Sample ID:	680-66162-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	10		Dilution:	10
Date Analyzed:	03/12/2011 1305		Date Analyzed:	03/12/2011 1333
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Perchlorate	2.8	0.500	0.500	3.21	4	3.25	4

NATIONVIEW

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 030211-01

LIMS Number:

Chain of Custody and Analytical Request

03/17/2011

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	Perchlorate (6860)													Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW68	AOCU-GW68	01032011	1530	-	N	1	WG	1	X																1
AOCU-GW69	AOCU-GW69	01032011	1250	-	N	1	WG	1	X																1
AOCU-GW69-A	AOCU-GW69-A	01032011	1250	-	FD	1	WG	1	X																1
AOCU-GW71	AOCU-GW71	01032011	1420	-	N	1	WG	1	X																1
AOCU-GW72	AOCU-GW72	01032011	1400	-	N	1	WG	1	X																1
AOCU-GW73	AOCU-GW73	01032011	1300	-	N	1	WG	1	X																1
AOCU-GW84	AOCU-GW84	01032011	0920	-	N	1	WG	1	X																1
AOCU-GW86	AOCU-GW86	01032011	1055	-	N	1	WG	1	X																1
AOCU-GW89	AOCU-GW89	01032011	0900	-	N	1	WG	1	X																1
AOCU-GW91	AOCU-GW91	01032011	1000	-	N	1	WG	1	X																1
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/2/11	1400	[signature]	03/02/11	0918
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: Test America

Lab Recipient:

Shipped No.:

Airbill Number: 794483171326

Delivery Location: Savannah, GA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

680-66162 5.2

Login Sample Receipt Checklist

Client: NationView LLC

Job Number: 680-66162-1

Login Number: 66162
List Number: 1
Creator: Paulsen, Lindsay T

List Source: TestAmerica Denver
List Creation: 03/04/11 06:22 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 680-66203-1

Job Description: AOC-U, RFI Investigation

For:
NationView LLC
1608 13th Avenue South
Suite 160
Birmingham, AL 35205

Attention: David Martin

Approved for release.
Linda Wolfe
Project Manager I
3/18/2011 11:42 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com
03/18/2011

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Receipt
All samples were received in good condition within temperature requirements.

LCMS
Method 6860: After one injection of the samples at 1x dilution the IC system over pressured. It was determined that the samples have a high level of dissolved salts from the conductivity detector readout on the IC. In order to preserve the integrity of the system all samples were diluted for matrix prior to injection.

EXECUTIVE SUMMARY - Detections

Client: NationView LLC

Job Number: 680-66203-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-66203-1	**AOCU-GW47**					
Perchlorate		5.3		2.5	ug/L	6860
680-66203-2	**AOCU-GW47-A**					
Perchlorate		5.4		2.5	ug/L	6860
680-66203-3	**AOCU-GW50**					
Perchlorate		6.2		2.5	ug/L	6860
680-66203-4	**AOCU-GW52**					
Perchlorate		0.048	J M	0.25	ug/L	6860
680-66203-6	**AOCU-GW56**					
Perchlorate		17		5.0	ug/L	6860
680-66203-7	**AOCU-GW57**					
Perchlorate		11		5.0	ug/L	6860
680-66203-8	**AOCU-GW59**					
Perchlorate		0.11	J M	0.25	ug/L	6860
680-66203-9	**AOCU-GW64**					
Perchlorate		4.4		1.0	ug/L	6860
680-66203-10	**AOCU-GW66**					
Perchlorate		4.4		1.0	ug/L	6860

METHOD / ANALYST SUMMARY

Client: NationView LLC

Job Number: 680-66203-1

Method	Analyst	Analyst ID
EPA 6860	Bonnett, Jaqueline C	JCB

SAMPLE SUMMARY

Client: NationView LLC

Job Number: 680-66203-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-66203-1	AOCU-GW47	Water	03/02/2011 1430	03/04/2011 0920
680-66203-2	AOCU-GW47-A	Water	03/02/2011 1430	03/04/2011 0920
680-66203-3	AOCU-GW50	Water	03/02/2011 1330	03/04/2011 0920
680-66203-4	AOCU-GW52	Water	03/02/2011 1415	03/04/2011 0920
680-66203-4MS	AOCU-GW52	Water	03/02/2011 1415	03/04/2011 0920
680-66203-4MSD	AOCU-GW52	Water	03/02/2011 1415	03/04/2011 0920
680-66203-5	AOCU-GW54	Water	03/02/2011 1310	03/04/2011 0920
680-66203-6	AOCU-GW56	Water	03/02/2011 1040	03/04/2011 0920
680-66203-7	AOCU-GW57	Water	03/02/2011 1000	03/04/2011 0920
680-66203-8	AOCU-GW59	Water	03/02/2011 0915	03/04/2011 0920
680-66203-9	AOCU-GW64	Water	03/02/2011 0930	03/04/2011 0920
680-66203-10	AOCU-GW66	Water	03/02/2011 1030	03/04/2011 0920

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW47**

Lab Sample ID: 680-66203-1

Client Matrix: Water

Date Sampled: 03/02/2011 1430

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1317.d
Dilution:	50		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 1907		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	5.3		0.44	2.5

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW47-A**

Lab Sample ID: 680-66203-2

Client Matrix: Water

Date Sampled: 03/02/2011 1430

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1318.d
Dilution:	50		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 1935		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	5.4		0.44	2.5

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW50**

Lab Sample ID: 680-66203-3

Client Matrix: Water

Date Sampled: 03/02/2011 1330

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1319.d
Dilution:	50		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 2003		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	6.2		0.44	2.5

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW52**

Lab Sample ID: 680-66203-4

Client Matrix: Water

Date Sampled: 03/02/2011 1415

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1320.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 2032		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.048	J M	0.044	0.25

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW54**

Lab Sample ID: 680-66203-5

Client Matrix: Water

Date Sampled: 03/02/2011 1310

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1326.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 2322		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.20	U	0.088	0.50

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW56**

Lab Sample ID: 680-66203-6

Client Matrix: Water

Date Sampled: 03/02/2011 1040

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1327.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 2351		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	17		0.88	5.0

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW57**

Lab Sample ID: 680-66203-7

Client Matrix: Water

Date Sampled: 03/02/2011 1000

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1328.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0019		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	11		0.88	5.0

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW59**

Lab Sample ID: 680-66203-8

Client Matrix: Water

Date Sampled: 03/02/2011 0915

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1329.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0047		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.11	J M	0.044	0.25

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW64**

Lab Sample ID: 680-66203-9

Client Matrix: Water

Date Sampled: 03/02/2011 0930

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1330.d
Dilution:	20		Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0116		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	4.4		0.18	1.0

Client: NationView LLC

Job Number: 680-66203-1

Client Sample ID: **AOCU-GW66**

Lab Sample ID: 680-66203-10

Client Matrix: Water

Date Sampled: 03/02/2011 1030

Date Received: 03/04/2011 0920

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1331.d
Dilution:	20		Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0144		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	4.4		0.18	1.0

DATA REPORTING QUALIFIERS

Client: NationView LLC

Job Number: 680-66203-1

Lab Section	Qualifier	Description
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: NationView LLC

Job Number: 680-66203-1

Detection Limit Check Standard - Batch: 280-55961

Method: 6860
Preparation: N/A

Lab Sample ID:	DLCK 280-55961/10	Analysis Batch:	280-55961	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c0510b.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/05/2011 1813			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0521	104	70 - 130	

Client: NationView LLC

Job Number: 680-66203-1

Method Blank - Batch: 280-57244

Method: 6860
Preparation: N/A

Lab Sample ID: MB 280-57244/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/13/2011 1741
Date Prepared: N/A

Analysis Batch: 280-57244
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11c1314.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample - Batch: 280-57244

Method: 6860
Preparation: N/A

Lab Sample ID: LCS 280-57244/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/13/2011 1810
Date Prepared: N/A

Analysis Batch: 280-57244
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11c1315.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0512	102	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57244

Method: 6860
Preparation: N/A

MS Lab Sample ID: 680-66203-4
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/13/2011 2100
Date Prepared: N/A

Analysis Batch: 280-57244
Prep Batch: N/A

Instrument ID: LC_LCMS1
Lab File ID: IC11c1321.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

MSD Lab Sample ID: 680-66203-4
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/13/2011 2129
Date Prepared: N/A

Analysis Batch: 280-57244
Prep Batch: N/A

Instrument ID: LC_LCMS1
Lab File ID: IC11c1322.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Perchlorate	102	93	80 - 120	7	15	M	M

Client: NationView LLC

Job Number: 680-66203-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57244

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66203-4	Units: ug/L	MSD Lab Sample ID:	680-66203-4
Client Matrix:	Water		Client Matrix:	Water
Dilution:	5.0		Dilution:	5.0
Date Analyzed:	03/13/2011 2100		Date Analyzed:	03/13/2011 2129
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Perchlorate	0.048	J	0.250	0.250	0.303	M	0.282	M

NATIONVIEW

Page: 2 of 2

Project No: 8090006.02.010

COC Number(1): 030311-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	Perchlorate (6860)													Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOC4-GW66	AOC4-GW66	02032011	1030	-	N	1	WG	1	X																1
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	A. Moore	3/3/11	1400	Francis Swafford	03/04/11	09:20
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FedEx Express Airbill Number: 796825866132

Analytical Lab: Test America Delivery Location: Savannah, GA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP 2.4

680-66203

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030311-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Perchlorate (6860)													Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-GW47	AOCU-GW47	02032011	1430	-	N	1	WG	1	X																1
AOCU-GW47-A	AOCU-GW47-A	02032011	1430	-	FD	1	WG	1	X																1
AOCU-GW50	AOCU-GW50	02032011	1330	-	N	1	WG	1	X																1
AOCU-GW52	AOCU-GW52	02032011	1415	-	N	1	WG	1	X																1
AOCU-GW52-MS	AOCU-GW52-MS	02032011	1415	-	MS	1	WG	1	X																1
AOCU-GW52-MSD	AOCU-GW52-MSD	02032011	1415	-	SD	1	WG	1	X																1
AOCU-GW54	AOCU-GW54	02032011	1310	-	N	1	WG	1	X																1
AOCU-GW56	AOCU-GW56	02032011	1040	-	N	1	WG	1	X																1
AOCU-GW57	AOCU-GW57	02032011	1000	-	N	1	WG	1	X																1
AOCU-GW59	AOCU-GW59	02032011	0915	-	N	1	WG	1	X																1
AOCU-GW64	AOCU-GW64	02032011	0930	-	N	1	WG	1	X																1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	3/3/11	1400	Frances Swafford	03/04/11	09:20
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	FedEx Express	Airbill Number:	7968 2586 6132
Analytical Lab:	Test America	Delivery Location:	Savannah, GA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP 2.4

680-66203

03/18/2011

Login Sample Receipt Checklist

Client: NationView LLC

Job Number: 680-66203-1

Login Number: 66203
List Number: 1
Creator: Cofoid, Stephen T

List Source: TestAmerica Denver
List Creation: 03/08/11 11:43 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 680-66222-1

Job Description: AOC-U, RFI Investigation

For:
NationView LLC
1608 13th Avenue South
Suite 160
Birmingham, AL 35205

Attention: David Martin

Approved for release.
Linda Wolfe
Project Manager I
3/18/2011 11:54 AM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com
03/18/2011

cc: Angela F Cross

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-66222-1

Receipt
All samples were received in good condition within temperature requirements.

LCMS
Method 6860: After one injection of the samples at 1x dilution the IC system over pressured. It was determined that the samples have a high level of dissolved salts from the conductivity detector readout on the IC. So in order to preserve the integrity of the system all samples were diluted for matrix prior to injection.

Due to the high concentration of Perchlorate, the matrix spike / matrix spike duplicate (MS/MSD) for batch 57244 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. The hit in the sample was more then 4x the spike level.

66222-1 MS = 54% limits 80-120%
66222-1 MSD = 52% limits 80-120%

EXECUTIVE SUMMARY - Detections

Client: NationView LLC

Job Number: 680-66222-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-66222-1	**AOCU-GW26**					
Perchlorate		42	J	5.0	ug/L	6860
680-66222-2	**AOCU-GW28**					
Perchlorate		0.88		0.50	ug/L	6860
680-66222-3	**AOCU-GW32**					
Perchlorate		0.11	J M	0.50	ug/L	6860
680-66222-4	**AOCU-GW35**					
Perchlorate		4.5		2.5	ug/L	6860
680-66222-5	**AOCU-GW35-A**					
Perchlorate		4.6		1.0	ug/L	6860
680-66222-7	**AOCU-GW43**					
Perchlorate		1.9	M	0.50	ug/L	6860
680-66222-8	**AOCU-GW45**					
Perchlorate		2.0	M	0.50	ug/L	6860
680-66222-9	**AOCU-GW41**					
Perchlorate		3.2	M	0.50	ug/L	6860

METHOD / ANALYST SUMMARY

Client: NationView LLC

Job Number: 680-66222-1

Method	Analyst	Analyst ID
EPA 6860	Bonnett, Jaqueline C	JCB

SAMPLE SUMMARY

Client: NationView LLC

Job Number: 680-66222-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-66222-1	AOCU-GW26	Water	03/03/2011 1306	03/05/2011 1015
680-66222-1MS	AOCU-GW26	Water	03/03/2011 1306	03/05/2011 1015
680-66222-1MSD	AOCU-GW26	Water	03/03/2011 1306	03/05/2011 1015
680-66222-2	AOCU-GW28	Water	03/03/2011 1421	03/05/2011 1015
680-66222-3	AOCU-GW32	Water	03/03/2011 1346	03/05/2011 1015
680-66222-4	AOCU-GW35	Water	03/03/2011 1446	03/05/2011 1015
680-66222-5	AOCU-GW35-A	Water	03/03/2011 1446	03/05/2011 1015
680-66222-6	AOCU-GW39	Water	03/03/2011 1015	03/05/2011 1015
680-66222-7	AOCU-GW43	Water	03/03/2011 0956	03/05/2011 1015
680-66222-8	AOCU-GW45	Water	03/03/2011 0851	03/05/2011 1015
680-66222-9	AOCU-GW41	Water	03/03/2011 0901	03/05/2011 1015

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW26**

Lab Sample ID: 680-66222-1

Client Matrix: Water

Date Sampled: 03/03/2011 1306

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-57244	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11c1332.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0213		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	42	J	0.88	5.0

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW28**

Lab Sample ID: 680-66222-2

Client Matrix: Water

Date Sampled: 03/03/2011 1421

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1548.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1322		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.88		0.088	0.50

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW32**

Lab Sample ID: 680-66222-3

Client Matrix: Water

Date Sampled: 03/03/2011 1346

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1549.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1351		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.11	J M	0.088	0.50

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW35**

Lab Sample ID: 680-66222-4

Client Matrix: Water

Date Sampled: 03/03/2011 1446

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1550.d
Dilution:	50		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1419		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	4.5		0.44	2.5

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW35-A**

Lab Sample ID: 680-66222-5

Client Matrix: Water

Date Sampled: 03/03/2011 1446

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1551.d
Dilution:	20		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1447		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	4.6		0.18	1.0

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW39**

Lab Sample ID: 680-66222-6

Client Matrix: Water

Date Sampled: 03/03/2011 1015

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1552.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1516		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.20	U	0.088	0.50

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW43**

Lab Sample ID: 680-66222-7

Client Matrix: Water

Date Sampled: 03/03/2011 0956

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1556.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1709		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	1.9	M	0.088	0.50

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW45**

Lab Sample ID: 680-66222-8

Client Matrix: Water

Date Sampled: 03/03/2011 0851

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1557.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1738		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	2.0	M	0.088	0.50

Client: NationView LLC

Job Number: 680-66222-1

Client Sample ID: **AOCU-GW41**

Lab Sample ID: 680-66222-9

Client Matrix: Water

Date Sampled: 03/03/2011 0901

Date Received: 03/05/2011 1015

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58076	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1558.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/16/2011 1806		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	3.2	M	0.088	0.50

DATA REPORTING QUALIFIERS

Client: NationView LLC

Job Number: 680-66222-1

Lab Section	Qualifier	Description
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	M	Manual integrated compound.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	U	Undetected at the Limit of Detection.

Client: NationView LLC

Job Number: 680-66222-1

Detection Limit Check Standard - Batch: 280-55961

Method: 6860
Preparation: N/A

Lab Sample ID:	DLCK 280-55961/10	Analysis Batch:	280-55961	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c0510b.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/05/2011 1813			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0521	104	70 - 130	

Client: NationView LLC

Job Number: 680-66222-1

Method Blank - Batch: 280-57244

Method: 6860
Preparation: N/A

Lab Sample ID:	MB 280-57244/4	Analysis Batch:	280-57244	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1314.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 1741			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample - Batch: 280-57244

Method: 6860
Preparation: N/A

Lab Sample ID:	LCS 280-57244/5	Analysis Batch:	280-57244	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1315.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/13/2011 1810			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0512	102	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57244

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66222-1	Analysis Batch:	280-57244	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1333.d
Dilution:	100			Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0241			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

MSD Lab Sample ID:	680-66222-1	Analysis Batch:	280-57244	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11c1334.d
Dilution:	100			Initial Weight/Volume:	5 mL
Date Analyzed:	03/14/2011 0309			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Perchlorate	54	52	80 - 120	0	15	4	4

Client: NationView LLC

Job Number: 680-66222-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57244

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66222-1	Units: ug/L	MSD Lab Sample ID:	680-66222-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	100		Dilution:	100
Date Analyzed:	03/14/2011 0241		Date Analyzed:	03/14/2011 0309
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Perchlorate	42	5.00	5.00	45.0	4	44.9	4

Client: NationView LLC

Job Number: 680-66222-1

Detection Limit Check Standard - Batch: 280-57409

Method: 6860
Preparation: N/A

Lab Sample ID:	DLCK 280-57409/10	Analysis Batch:	280-57409	Instrument ID:	LC_LCMS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	IC11C1510.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	03/15/2011 1923			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A			Injection Volume:	250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0483	97	70 - 130	J

Client: NationView LLC

Job Number: 680-66222-1

Method Blank - Batch: 280-58076

Method: 6860
Preparation: N/A

Lab Sample ID: MB 280-58076/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/16/2011 1129
Date Prepared: N/A

Analysis Batch: 280-58076
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11C1544.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-58076

Method: 6860
Preparation: N/A

LCS Lab Sample ID: LCS 280-58076/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/16/2011 1157
Date Prepared: N/A

Analysis Batch: 280-58076
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11C1545.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

LCSD Lab Sample ID: LCSD 280-58076/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/16/2011 1225
Date Prepared: N/A

Analysis Batch: 280-58076
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11C1546.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Perchlorate	99	97	80 - 120	2	15	J	J

Client: NationView LLC

Job Number: 680-66222-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-58076

Method: 6860
Preparation: N/A

LCS Lab Sample ID:	LCS 280-58076/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-58076/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	03/16/2011 1157			Date Analyzed:	03/16/2011 1225
Date Prepared:	N/A			Date Prepared:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Perchlorate	0.0500	0.0500	0.0496	J	0.0487	J

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030411-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	Perchlorate (6860)	Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-GW26	AOCU-GW26	03032011	1306	-	N	1	WG	1	X				1
AOCU-GW26-MS	AOCU-GW26-MS	03032011	1306	-	MS	1	WG	1	X				1
AOCU-GW26-MSD	AOCU-GW26-MSD	03032011	1306	-	SD	1	WG	1	X				1
AOCU-GW28	AOCU-GW28	03032011	1421	-	N	1	WG	1	X				1
AOCU-GW32	AOCU-GW32	03032011	1346	-	N	1	WG	1	X				1
AOCU-GW35	AOCU-GW35	03032011	1446	-	N	1	WG	1	X				1
AOCU-GW35-A	AOCU-GW35-A	03032011	1446	-	FD	1	WG	1	X				1
AOCU-GW39	AOCU-GW39	03032011	1016	-	N	1	WG	1	X				1
AOCU-GW43	AOCU-GW43	03032011	0956	-	N	1	WG	1	X				1
AOCU-GW45	AOCU-GW45	03032011	0851	-	N	1	WG	1	X				1
AOCU-GW41	AOCU-GW41	03032011	0901	-	N	1	WG	1	X				1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JHMore	3/4/11	1400	Beth A Daughty	03/05/11	1015
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 7968 3120 4258

Analytical Lab: Test America

Delivery Location: Savannah, GA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Temp 0.2
680-66222

03/18/2011

Login Sample Receipt Checklist

Client: NationView LLC

Job Number: 680-66222-1

Login Number: 66222
List Number: 1
Creator: Cofoid, Stephen T

List Source: TestAmerica Denver
List Creation: 03/08/11 11:45 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 680-66263-1

Job Description: Drinking Water

For:
NationView LLC
1608 13th Avenue South
Suite 160
Birmingham, AL 35205

Attention: David Martin

Approved for release.
Linda Wolfe
Project Manager I
3/23/2011 5:07 PM

Linda Wolfe
Project Manager I
linda.wolfe@testamericainc.com
03/23/2011

cc: Angela F Cross

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager who signed this report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-66263-1

Receipt
All samples were received in good condition within temperature requirements.

LCMS
Method(s) 6860: After one injection of the samples at 1x dilution the IC system over pressured. It was determined that the samples have a high level of dissolved salts from the conductivity detector readout on the IC. So in order to preserve the integrity of the system all samples were diluted for matrix prior to injection.

EXECUTIVE SUMMARY - Detections

Client: NationView LLC

Job Number: 680-66263-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-66263-2	**AOCU-GW02**					
Perchlorate		0.28	J M	0.50	ug/L	6860
680-66263-8	**AOCU-GW12**					
Perchlorate		1.3	M	0.50	ug/L	6860
680-66263-11	**AOCU-GW19**					
Perchlorate		0.82	M	0.50	ug/L	6860
680-66263-12	**AOCU-GW20**					
Perchlorate		35		5.0	ug/L	6860
680-66263-13	**AOCU-GW22**					
Perchlorate		89		10	ug/L	6860
680-66263-14	**AOCU-GW24**					
Perchlorate		140		50	ug/L	6860
680-66263-15	**AOCU-GW24-A**					
Perchlorate		140		50	ug/L	6860
680-66263-16	**AOCU-SW01**					
Perchlorate		10		5.0	ug/L	6860
680-66263-17	**AOCU-SW02**					
Perchlorate		0.32	J	0.50	ug/L	6860
680-66263-18	**AOCU-SW03**					
Perchlorate		0.31		0.25	ug/L	6860
680-66263-19	**AOCU-SW03-A**					
Perchlorate		0.29		0.25	ug/L	6860

METHOD / ANALYST SUMMARY

Client: NationView LLC

Job Number: 680-66263-1

Method	Analyst	Analyst ID
EPA 6860	Bonnett, Jaqueline C	JCB

SAMPLE SUMMARY

Client: NationView LLC

Job Number: 680-66263-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-66263-1	AOCU-GW01	Water	03/05/2011 1415	03/08/2011 0925
680-66263-2	AOCU-GW02	Water	03/05/2011 1320	03/08/2011 0925
680-66263-3	AOCU-GW03	Water	03/05/2011 1135	03/08/2011 0925
680-66263-4	AOCU-GW05	Water	03/05/2011 1200	03/08/2011 0925
680-66263-5	AOCU-GW07	Water	03/05/2011 1030	03/08/2011 0925
680-66263-6	AOCU-GW08	Water	03/05/2011 1010	03/08/2011 0925
680-66263-7	AOCU-GW10	Water	03/04/2011 1415	03/08/2011 0925
680-66263-8	AOCU-GW12	Water	03/04/2011 1310	03/08/2011 0925
680-66263-9	AOCU-GW15	Water	03/04/2011 1530	03/08/2011 0925
680-66263-10	AOCU-GW17	Water	03/04/2011 1345	03/08/2011 0925
680-66263-11	AOCU-GW19	Water	03/04/2011 0920	03/08/2011 0925
680-66263-12	AOCU-GW20	Water	03/04/2011 0945	03/08/2011 0925
680-66263-13	AOCU-GW22	Water	03/04/2011 1045	03/08/2011 0925
680-66263-14	AOCU-GW24	Water	03/04/2011 1050	03/08/2011 0925
680-66263-15	AOCU-GW24-A	Water	03/04/2011 1050	03/08/2011 0925
680-66263-16	AOCU-SW01	Water	03/06/2011 1040	03/08/2011 0925
680-66263-17	AOCU-SW02	Water	03/06/2011 1000	03/08/2011 0925
680-66263-18	AOCU-SW03	Water	03/06/2011 0850	03/08/2011 0925
680-66263-18MS	AOCU-SW03	Water	03/06/2011 0850	03/08/2011 0925
680-66263-18MSD	AOCU-SW03	Water	03/06/2011 0850	03/08/2011 0925
680-66263-19	AOCU-SW03-A	Water	03/06/2011 0850	03/08/2011 0925

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW01**

Lab Sample ID: 680-66263-1

Client Matrix: Water

Date Sampled: 03/05/2011 1415

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1817.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1452		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW02**

Lab Sample ID: 680-66263-2

Client Matrix: Water

Date Sampled: 03/05/2011 1320

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1818.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1520		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.28	J M	0.088	0.50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW03**

Lab Sample ID: 680-66263-3

Client Matrix: Water

Date Sampled: 03/05/2011 1135

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1819.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1548		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW05**

Lab Sample ID: 680-66263-4

Client Matrix: Water

Date Sampled: 03/05/2011 1200

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1820.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1617		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW07**

Lab Sample ID: 680-66263-5

Client Matrix: Water

Date Sampled: 03/05/2011 1030

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1821.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1645		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW08**

Lab Sample ID: 680-66263-6

Client Matrix: Water

Date Sampled: 03/05/2011 1010

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1825.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1839		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW10**

Lab Sample ID: 680-66263-7

Client Matrix: Water

Date Sampled: 03/04/2011 1415

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1826.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1907		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW12**

Lab Sample ID: 680-66263-8

Client Matrix: Water

Date Sampled: 03/04/2011 1310

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1827.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 1936		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	1.3	M	0.088	0.50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW15**

Lab Sample ID: 680-66263-9

Client Matrix: Water

Date Sampled: 03/04/2011 1530

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1828.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2004		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.10	U	0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW17**

Lab Sample ID: 680-66263-10

Client Matrix: Water

Date Sampled: 03/04/2011 1345

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1829.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2032		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.20	U	0.088	0.50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW19**

Lab Sample ID: 680-66263-11

Client Matrix: Water

Date Sampled: 03/04/2011 0920

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1830.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2101		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.82	M	0.088	0.50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW20**

Lab Sample ID: 680-66263-12

Client Matrix: Water

Date Sampled: 03/04/2011 0945

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1831.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2129		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	35		0.88	5.0

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW22**

Lab Sample ID: 680-66263-13

Client Matrix: Water

Date Sampled: 03/04/2011 1045

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1832.d
Dilution:	200		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2157		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	89		1.8	10

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW24**

Lab Sample ID: 680-66263-14

Client Matrix: Water

Date Sampled: 03/04/2011 1050

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1833.d
Dilution:	1000		Initial Weight/Volume:	5 mL
Date Analyzed:	03/18/2011 2226		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	140		8.8	50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-GW24-A**

Lab Sample ID: 680-66263-15

Client Matrix: Water

Date Sampled: 03/04/2011 1050

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1837.d
Dilution:	1000		Initial Weight/Volume:	5 mL
Date Analyzed:	03/19/2011 0019		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	140		8.8	50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-SW01**

Lab Sample ID: 680-66263-16

Client Matrix: Water

Date Sampled: 03/06/2011 1040

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1838.d
Dilution:	100		Initial Weight/Volume:	5 mL
Date Analyzed:	03/19/2011 0048		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	10		0.88	5.0

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-SW02**

Lab Sample ID: 680-66263-17

Client Matrix: Water

Date Sampled: 03/06/2011 1000

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1839.d
Dilution:	10		Initial Weight/Volume:	5 mL
Date Analyzed:	03/19/2011 0116		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.32	J	0.088	0.50

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-SW03**

Lab Sample ID: 680-66263-18

Client Matrix: Water

Date Sampled: 03/06/2011 0850

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1840.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/19/2011 0145		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.31		0.044	0.25

Client: NationView LLC

Job Number: 680-66263-1

Client Sample ID: **AOCU-SW03-A**

Lab Sample ID: 680-66263-19

Client Matrix: Water

Date Sampled: 03/06/2011 0850

Date Received: 03/08/2011 0925

6860 Perchlorate by IC/MS or IC/MS/MS

Method:	6860	Analysis Batch: 280-58431	Instrument ID:	LC_LCMS1
Preparation:	N/A		Lab File ID:	IC11C1843.d
Dilution:	5.0		Initial Weight/Volume:	5 mL
Date Analyzed:	03/19/2011 0310		Final Weight/Volume:	1.0 mL
Date Prepared:			Injection Volume:	250 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Perchlorate	0.29		0.044	0.25

DATA REPORTING QUALIFIERS

Client: NationView LLC

Job Number: 680-66263-1

Lab Section	Qualifier	Description
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: NationView LLC

Job Number: 680-66263-1

Method Blank - Batch: 280-58431

Method: 6860
Preparation: N/A

Lab Sample ID: MB 280-58431/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1329
Date Prepared: N/A

Analysis Batch: 280-58431
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11C1814.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Result	Qual	DL	LOQ
Perchlorate	0.020	U	0.0088	0.050

Lab Control Sample - Batch: 280-58431

Method: 6860
Preparation: N/A

Lab Sample ID: LCS 280-58431/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2011 1355
Date Prepared: N/A

Analysis Batch: 280-58431
Prep Batch: N/A
Units: ug/L

Instrument ID: LC_LCMS1
Lab File ID: IC11C1815.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	0.0500	0.0555	111	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58431

Method: 6860
Preparation: N/A

MS Lab Sample ID: 680-66263-18
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/19/2011 0213
Date Prepared: N/A

Analysis Batch: 280-58431
Prep Batch: N/A

Instrument ID: LC_LCMS1
Lab File ID: IC11C1841.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

MSD Lab Sample ID: 680-66263-18
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/19/2011 0241
Date Prepared: N/A

Analysis Batch: 280-58431
Prep Batch: N/A

Instrument ID: LC_LCMS1
Lab File ID: IC11C1842.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 250 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Perchlorate	98	93	80 - 120	2	15		

Client: NationView LLC

Job Number: 680-66263-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58431

Method: 6860
Preparation: N/A

MS Lab Sample ID:	680-66263-18	Units: ug/L	MSD Lab Sample ID:	680-66263-18
Client Matrix:	Water		Client Matrix:	Water
Dilution:	5.0		Dilution:	5.0
Date Analyzed:	03/19/2011 0213		Date Analyzed:	03/19/2011 0241
Date Prepared:	N/A		Date Prepared:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Perchlorate	0.31	0.250	0.250	0.554	0.541

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030711-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Perchlorate (6860)												Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW01	AOCU-GW01	05032011	1415	-	N	1	WG	1	X															1
AOCU-GW02	AOCU-GW02	05032011	1320	-	N	1	WG	1	X															1
AOCU-GW03	AOCU-GW03	05032011	1135	-	N	1	WG	1	X															1
AOCU-GW05	AOCU-GW05	05032011	1200	-	N	1	WG	1	X															1
AOCU-GW07	AOCU-GW07	05032011	1030	-	N	1	WG	1	X															1
AOCU-GW08	AOCU-GW08	05032011	1010	-	N	1	WG	1	X															1
AOCU-GW10	AOCU-GW10	04032011	1415	-	N	1	WG	1	X															1
AOCU-GW12	AOCU-GW12	04032011	1310	-	N	1	WG	1	X															1
AOCU-GW15	AOCU-GW15	04032011	1530	-	N	1	WG	1	X															1
AOCU-GW17	AOCU-GW17	04032011	1345	-	N	1	WG	1	X															1
AOCU-GW19	AOCU-GW19	04032011	0920	-	N	1	WG	1	X															1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Jeff Moore	3/7/11	1400	Beth A Daughty	3/9/11	0925
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FedEx Express Airbill Number: 796837014398

Analytical Lab: Test America Delivery Location: Savannah, GA

Lab Recipient: Delivery Date/Time:

Temp 0.8
680-66263

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

PRG 2 03/23/2011

NATIONVIEW

Project No: 8090006.02.010

COC Number(1): 030711-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: D. McNeil/ Z. Beck/D. Berry/C. McGriff

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Perchlorate (6860)												Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)													Quality Assurance Samples (6)			
AOCU-GW20	AOCU-GW20	04032011	0945	-	N	1	WG	1	X															1
AOCU-GW22	AOCU-GW22	04032011	1045	-	N	1	WG	1	X															1
AOCU-GW24	AOCU-GW24	04032011	1050	-	N	1	WG	1	X															1
AOCU-GW24-A	AOCU-GW24-A	04032011	1050	-	FD	1	WG	1	X															1
AOCU-SW01	AOCU-SW01	06032011	1040	-	N	1	WS	1	X															1
AOCU-SW02	AOCU-SW02	06032011	1000	-	N	1	WS	1	X															1
AOCU-SW03	AOCU-SW03	06032011	0850	-	N	1	WS	1	X															1
AOCU-SW03-A	AOCU-SW03-A	06032011	0850	-	FD	1	WS	1	X															1
AOCU-SW03-MS	AOCU-SW03-MS	06032011	0850	-	MS	1	WS	1	X															1
AOCU-SW03-MSD	AOCU-SW03-MSD	06032011	0850	-	SD	1	WS	1	X															1

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	3/7/11	1400	Beth A Daughtry	3/9/11	0925
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: Test America

Lab Recipient:

Shipped No.:

Airbill Number: 796837014398

Delivery Location: Savannah, GA

Delivery Date/Time:

Temp 0.8
680-66263

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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03/23/2011

Login Sample Receipt Checklist

Client: NationView LLC

Job Number: 680-66263-1

Login Number: 66263
List Number: 1
Creator: Cofoid, Stephen T

List Source: TestAmerica Denver
List Creation: 03/09/11 03:53 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 08/10/2011

GCAL Report 211071213

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project AOC-U RFI Invest / Holloman

CASE NARRATIVE

Client: NationView, LLC **Report:** 211071213

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 461062, the LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane, Dibromomethane, cis-1,2-Dichloroethene, n-Hexane and Ethyl methacrylate. The LCS/LCSD RPD is above the control limit for Acetonitrile. These compounds were not detected in the associated samples. The % Drift is outside ±20% for Pentachloroethane in the CCV. This compound was not detected in the associated samples.

In the SW-846 8260B analysis for analytical batch 461363, the MS/MSD exhibited recovery failures. The LCS and/or LCSD recoveries are above the upper control limit for Pentachloroethane. This compound was not detected in the associated samples. Chloroform was detected at an estimated concentration in the method blank. This is probable laboratory contamination.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis for prep batch 460715, the MS/MSD exhibited recovery and RPD failures. All LCS/LCSD recoveries and RPDs are acceptable.

VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8015B GRO analysis, all samples were analyzed at a 50 (methanol extract) dilution. The reporting limit is at or below the required limit at this dilution.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 21107121301 (AOCU-HA20-2), 21107121303 (AOCU-HA22-2), 21107121304 (AOCU-HA22-2-A), 21107121305 (AOCU-HA24-1), 21107121306 (AOCU-HA24-1-MS), 21107121307 (AOCU-HA24-1-MSD), 21107121308 (AOCU-HA26-1.5), and 21107121310 (AOCU-HA41-3). This is reflected in elevated detection limits.

In the SW-846 6010B analysis for prep batch 460726, the MS and/or MSD recovery is outside the control limits for Antimony. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. The MS/MSD recoveries are not applicable for Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium, and Sodium because the sample concentration is greater than four times the spike concentration.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21107121301 (AOCU-HA20-2), 21107121303 (AOCU-HA22-2), 21107121304 (AOCU-HA22-2-A), 21107121305 (AOCU-HA24-1), 21107121306 (AOCU-HA24-1-MS), 21107121307 (AOCU-HA24-1-MSD,) and 21107121308 (AOCU-HA26-1.5) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The

Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211071213

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	AOCU-HA20-2	Solid	07/11/2011 08:50	07/12/2011 09:25
21107121303	AOCU-HA22-2	Solid	07/11/2011 09:10	07/12/2011 09:25
21107121304	AOCU-HA22-2-A	Solid	07/11/2011 09:10	07/12/2011 09:25
21107121305	AOCU-HA24-1	Solid	07/11/2011 09:45	07/12/2011 09:25
21107121306	AOCU-HA24-1-MS	Solid	07/11/2011 09:45	07/12/2011 09:25
21107121307	AOCU-HA24-1-MSD	Solid	07/11/2011 09:45	07/12/2011 09:25
21107121308	AOCU-HA26-1.5	Solid	07/11/2011 10:45	07/12/2011 09:25
21107121309	AOCU-HA28-2	Solid	07/11/2011 11:05	07/12/2011 09:25
21107121310	AOCU-HA41-3	Solid	07/11/2011 11:25	07/12/2011 09:25
21107121311	TRIP BLANK	Water	07/11/2011 08:50	07/12/2011 09:25

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	2500J	5510	1780	ug/Kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.51	6.25	0.794	ug/Kg
67-64-1	Acetone	30.7J	31.3	1.35	ug/Kg
71-43-2	Benzene	3.03J	6.25	0.133	ug/Kg
67-66-3	Chloroform	0.969J	6.25	0.281	ug/Kg
108-88-3	Toluene	2.65J	6.25	0.330	ug/Kg
110-54-3	n-Hexane	1.49J	6.25	0.403	ug/Kg
95-47-6	o-Xylene	1.14J	6.25	0.180	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	35.7	3.45	0.179	mg/kg-N

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0053B	0.016	0.0046	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4110	21.9	1.73	mg/kg
7440-36-0	Antimony	0.40B	6.56	0.32	mg/kg
7440-38-2	Arsenic	1.94B	4.38	0.24	mg/kg
7440-39-3	Barium	39.9	1.09	0.030	mg/kg
7440-41-7	Beryllium	0.19B	0.55	0.0076	mg/kg
7440-43-9	Cadmium	0.52B	0.55	0.027	mg/kg
7440-70-2	Calcium	197000	82.0	2.52	mg/kg
7440-47-3	Chromium	3.87	1.09	0.032	mg/kg
7440-48-4	Cobalt	1.51	1.09	0.060	mg/kg
7440-50-8	Copper	5.54	1.09	0.090	mg/kg
7439-89-6	Iron	3960	10.9	2.48	mg/kg
7439-92-1	Lead	3.18	1.64	0.20	mg/kg
7439-95-4	Magnesium	19800	10.9	3.66	mg/kg
7439-96-5	Manganese	131	1.64	0.11	mg/kg
7440-02-0	Nickel	3.35B	4.38	0.086	mg/kg
7440-09-7	Potassium	1560	54.7	4.98	mg/kg
7782-49-2	Selenium	0.58B	4.38	0.53	mg/kg
7440-22-4	Silver	0.25B	1.09	0.095	mg/kg
7440-62-2	Vanadium	8.14	2.19	0.14	mg/kg
7440-66-6	Zinc	15.4	2.19	0.91	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	17700	109	9.60	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	17.0	1.38	0.072	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	8140	22.1	1.74	mg/kg
7440-36-0	Antimony	0.96B	6.62	0.33	mg/kg
7440-38-2	Arsenic	2.83B	4.41	0.24	mg/kg
7440-39-3	Barium	67.5	1.10	0.030	mg/kg
7440-41-7	Beryllium	0.66	0.55	0.0076	mg/kg
7440-43-9	Cadmium	0.45B	0.55	0.027	mg/kg
7440-70-2	Calcium	179000	82.7	2.54	mg/kg
7440-47-3	Chromium	10.5	1.10	0.032	mg/kg
7440-48-4	Cobalt	4.02	1.10	0.060	mg/kg
7440-50-8	Copper	9.99	1.10	0.090	mg/kg
7439-89-6	Iron	10400	11.0	2.50	mg/kg
7439-92-1	Lead	8.66	1.65	0.20	mg/kg
7439-95-4	Magnesium	19000	11.0	3.70	mg/kg
7439-96-5	Manganese	207	1.65	0.11	mg/kg
7440-02-0	Nickel	9.69	4.41	0.087	mg/kg
7440-09-7	Potassium	2580	55.1	5.02	mg/kg
7440-62-2	Vanadium	19.5	2.21	0.14	mg/kg
7440-66-6	Zinc	38.1	2.21	0.91	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	15900	110	9.68	mg/kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0061B	0.017	0.0047	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.34J	6.36	0.808	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	AOCU-HA22-2	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	22.7J	31.8	1.37	ug/Kg
71-43-2	Benzene	4.37J	6.36	0.135	ug/Kg
67-66-3	Chloroform	1.20J	6.36	0.286	ug/Kg
108-88-3	Toluene	2.92J	6.36	0.336	ug/Kg
110-54-3	n-Hexane	2.16J	6.36	0.410	ug/Kg
95-47-6	o-Xylene	1.20J	6.36	0.183	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	AOCU-HA22-2-A	Solid	07/11/2011 09:10	07/12/2011 09:25

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	20.5	1.40	0.073	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	3900	22.2	1.75	mg/kg
7440-38-2	Arsenic	2.26B	4.44	0.24	mg/kg
7440-39-3	Barium	35.5	1.11	0.030	mg/kg
7440-41-7	Beryllium	0.17B	0.56	0.0077	mg/kg
7440-70-2	Calcium	182000	83.3	2.56	mg/kg
7440-47-3	Chromium	3.92	1.11	0.032	mg/kg
7440-48-4	Cobalt	1.39	1.11	0.061	mg/kg
7440-50-8	Copper	4.55	1.11	0.091	mg/kg
7439-89-6	Iron	3610	11.1	2.51	mg/kg
7439-92-1	Lead	1.21B	1.67	0.20	mg/kg
7439-95-4	Magnesium	20900	11.1	3.72	mg/kg
7439-96-5	Manganese	159	1.67	0.11	mg/kg
7440-02-0	Nickel	3.11B	4.44	0.087	mg/kg
7440-09-7	Potassium	1240	55.5	5.05	mg/kg
7440-22-4	Silver	0.11B	1.11	0.097	mg/kg
7440-62-2	Vanadium	8.21	2.22	0.14	mg/kg
7440-66-6	Zinc	12.3	2.22	0.92	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.37B	0.56	0.027	mg/kg
7782-49-2	Selenium	0.97B	4.44	0.53	mg/kg
7440-23-5	Sodium	12700	111	9.74	mg/kg
7440-28-0	Thallium	0.61B	2.22	0.28	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.45	5.66	0.719	ug/Kg
67-64-1	Acetone	19.0J	28.3	1.22	ug/Kg
71-43-2	Benzene	4.92J	5.66	0.120	ug/Kg
67-66-3	Chloroform	1.00J	5.66	0.255	ug/Kg
108-88-3	Toluene	3.72J	5.66	0.299	ug/Kg
136777-61-2	m,p-Xylene	0.572J	5.66	0.402	ug/Kg
110-54-3	n-Hexane	2.42J	5.66	0.364	ug/Kg
95-47-6	o-Xylene	1.25J	5.66	0.163	ug/Kg

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
117-81-7	Bis(2-Ethylhexyl)phthalate	110J	456	27.1	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	43.2	7.28	0.379	mg/kg-N

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.011B	0.017	0.0050	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	13500	23.3	1.84	mg/kg
7440-38-2	Arsenic	3.58B	4.66	0.26	mg/kg
7440-39-3	Barium	105	1.17	0.032	mg/kg
7440-41-7	Beryllium	1.26	0.58	0.0081	mg/kg
7440-43-9	Cadmium	0.40B	0.58	0.028	mg/kg
7440-70-2	Calcium	131000	87.4	2.68	mg/kg
7440-47-3	Chromium	17.5	1.17	0.034	mg/kg
7440-48-4	Cobalt	7.13	1.17	0.064	mg/kg
7440-50-8	Copper	14.3	1.17	0.096	mg/kg
7439-89-6	Iron	17700	11.7	2.64	mg/kg
7439-92-1	Lead	13.2	1.75	0.21	mg/kg
7439-95-4	Magnesium	15900	11.7	3.90	mg/kg
7439-96-5	Manganese	315	1.75	0.11	mg/kg
7440-02-0	Nickel	17.5	4.66	0.091	mg/kg
7440-09-7	Potassium	3900	58.3	5.30	mg/kg
7440-62-2	Vanadium	31.4	2.33	0.14	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	59.0	2.33	0.96	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	21300	117	10.2	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.12	5.68	0.721	ug/Kg
67-64-1	Acetone	14.3J	28.4	1.23	ug/Kg
71-43-2	Benzene	5.24J	5.68	0.120	ug/Kg
67-66-3	Chloroform	1.14J	5.68	0.256	ug/Kg
108-88-3	Toluene	3.99J	5.68	0.300	ug/Kg
136777-61-2	m,p-Xylene	0.807J	5.68	0.403	ug/Kg
110-54-3	n-Hexane	3.07J	5.68	0.366	ug/Kg
95-47-6	o-Xylene	1.28J	5.68	0.164	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	69800	19200	2750	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44000	5810	1870	ug/Kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.43	0.017	0.0050	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	54.2	5.53	0.238	ug/Kg
71-55-6	1,1,1-Trichloroethane	59.4	5.53	0.212	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	65.5	5.53	0.218	ug/Kg
79-00-5	1,1,2-Trichloroethane	56.7	5.53	0.189	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-34-3	1,1-Dichloroethane	58.4	5.53	0.194	ug/Kg
75-35-4	1,1-Dichloroethene	59.7	5.53	0.339	ug/Kg
563-58-6	1,1-Dichloropropene	59.0	5.53	0.219	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	39.3	5.53	0.125	ug/Kg
96-18-4	1,2,3-Trichloropropane	82.7	5.53	0.181	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	40.3	5.53	0.160	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	50.8	5.53	0.131	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	70.3	5.53	0.770	ug/Kg
106-93-4	1,2-Dibromoethane	58.3	5.53	0.606	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.4	5.53	0.281	ug/Kg
107-06-2	1,2-Dichloroethane	56.5	5.53	0.201	ug/Kg
78-87-5	1,2-Dichloropropane	60.3	5.53	0.136	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	47.6	5.53	0.126	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.1	5.53	0.156	ug/Kg
142-28-9	1,3-Dichloropropane	57.7	5.53	0.148	ug/Kg
106-46-7	1,4-Dichlorobenzene	50.1	5.53	0.157	ug/Kg
544-10-5	1-Chlorohexane	52.0	5.53	0.162	ug/Kg
594-20-7	2,2-Dichloropropane	60.0	5.53	0.336	ug/Kg
78-93-3	2-Butanone	65.4	5.53	0.702	ug/Kg
110-75-8	2-Chloroethylvinyl ether	60.6	5.53	1.33	ug/Kg
95-49-8	2-Chlorotoluene	51.0	5.53	0.191	ug/Kg
591-78-6	2-Hexanone	53.7	5.53	0.781	ug/Kg
106-43-4	4-Chlorotoluene	51.3	5.53	0.122	ug/Kg
99-87-6	4-Isopropyltoluene	45.6	5.53	0.094	ug/Kg
108-10-1	4-Methyl-2-pentanone	67.9	5.53	0.249	ug/Kg
67-64-1	Acetone	60.4	27.6	1.19	ug/Kg
75-05-8	Acetonitrile	310	111	1.85	ug/Kg
107-02-8	Acrolein	240	27.6	2.57	ug/Kg
107-13-1	Acrylonitrile	285	27.6	0.641	ug/Kg
107-05-1	Allyl chloride	58.3	5.53	0.609	ug/Kg
71-43-2	Benzene	59.9	5.53	0.117	ug/Kg
108-86-1	Bromobenzene	52.1	5.53	0.162	ug/Kg
74-97-5	Bromochloromethane	56.4	5.53	0.266	ug/Kg
75-27-4	Bromodichloromethane	57.7	5.53	0.149	ug/Kg
75-25-2	Bromoform	61.5	5.53	0.236	ug/Kg
74-83-9	Bromomethane	61.2	5.53	0.705	ug/Kg
75-15-0	Carbon disulfide	57.4	5.53	0.399	ug/Kg
56-23-5	Carbon tetrachloride	60.7	5.53	0.227	ug/Kg
108-90-7	Chlorobenzene	52.1	5.53	0.198	ug/Kg
75-00-3	Chloroethane	34.1	5.53	0.270	ug/Kg
67-66-3	Chloroform	57.8	5.53	0.249	ug/Kg
74-87-3	Chloromethane	61.2	5.53	0.624	ug/Kg
124-48-1	Dibromochloromethane	55.2	5.53	0.211	ug/Kg
74-95-3	Dibromomethane	58.1	5.53	0.214	ug/Kg
75-71-8	Dichlorodifluoromethane	62.8	5.53	0.131	ug/Kg
97-63-2	Ethyl methacrylate	54.9	5.53	0.476	ug/Kg
100-41-4	Ethylbenzene	53.5	5.53	0.242	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	5.53	0.168	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	50.2	5.53	0.103	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

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CAS#	Parameter	Result	RDL	MDL	Units
126-98-7	Methacrylonitrile	64.7	5.53	0.487	ug/Kg
74-88-4	Methyl iodide	58.1	5.53	1.36	ug/Kg
80-62-6	Methyl methacrylate	63.1	5.53	0.883	ug/Kg
75-09-2	Methylene chloride	45.7	11.1	0.532	ug/Kg
91-20-3	Naphthalene	49.8	5.53	0.193	ug/Kg
76-01-7	Pentachloroethane	498	5.53	0.903	ug/Kg
107-12-0	Propionitrile	345	5.53	2.81	ug/Kg
100-42-5	Styrene	52.1	5.53	0.455	ug/Kg
127-18-4	Tetrachloroethene	59.9	5.53	0.225	ug/Kg
108-88-3	Toluene	55.5	5.53	0.292	ug/Kg
79-01-6	Trichloroethene	59.4	5.53	0.192	ug/Kg
75-69-4	Trichlorofluoromethane	60.9	5.53	0.225	ug/Kg
76-13-1	Trichlorotrifluoroethane	61.2	5.53	0.221	ug/Kg
108-05-4	Vinyl acetate	53.9	5.53	0.244	ug/Kg
75-01-4	Vinyl chloride	62.3	5.53	0.276	ug/Kg
156-59-2	cis-1,2-Dichloroethene	54.8	5.53	0.143	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	58.3	5.53	0.360	ug/Kg
136777-61-2	m,p-Xylene	106	5.53	0.392	ug/Kg
104-51-8	n-Butylbenzene	41.7	5.53	0.157	ug/Kg
110-54-3	n-Hexane	54.6	5.53	0.356	ug/Kg
103-65-1	n-Propylbenzene	50.2	5.53	0.122	ug/Kg
95-47-6	o-Xylene	51.4	5.53	0.159	ug/Kg
135-98-8	sec-Butylbenzene	46.0	5.53	0.119	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	54.3	5.53	0.264	ug/Kg
98-06-6	tert-Butylbenzene	48.6	5.53	0.152	ug/Kg
156-60-5	trans-1,2-Dichloroethene	59.0	5.53	0.353	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	55.9	5.53	0.525	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	147	5.53	0.572	ug/Kg

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	3220	479	16.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	3200	479	15.1	ug/Kg
121-14-2	2,4-Dinitrotoluene	3680	479	29.0	ug/Kg
95-57-8	2-Chlorophenol	2770	479	16.8	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2750	479	45.7	ug/Kg
100-02-7	4-Nitrophenol	2460	2400	135	ug/Kg
83-32-9	Acenaphthene	3340	479	19.0	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	120J	479	28.5	ug/Kg
87-86-5	Pentachlorophenol	2370J	2400	183	ug/Kg
108-95-2	Phenol	2670	479	28.7	ug/Kg
129-00-0	Pyrene	3980	479	22.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	3520	479	21.9	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	117	7.28	0.379	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	18600	23.3	1.84	mg/kg
7440-36-0	Antimony	6.37B	6.99	0.34	mg/kg
7440-38-2	Arsenic	35.2	4.66	0.26	mg/kg
7440-39-3	Barium	135	1.17	0.032	mg/kg
7440-41-7	Beryllium	30.6	0.58	0.0081	mg/kg
7440-43-9	Cadmium	27.9	0.58	0.028	mg/kg
7440-70-2	Calcium	128000	87.4	2.68	mg/kg
7440-47-3	Chromium	48.5	1.17	0.034	mg/kg
7440-48-4	Cobalt	33.8	1.17	0.064	mg/kg
7440-50-8	Copper	42.3	1.17	0.096	mg/kg
7439-89-6	Iron	20000	11.7	2.64	mg/kg
7439-92-1	Lead	40.1	1.75	0.21	mg/kg
7439-95-4	Magnesium	17200	11.7	3.90	mg/kg
7439-96-5	Manganese	343	1.75	0.11	mg/kg
7440-02-0	Nickel	45.3	4.66	0.091	mg/kg
7440-09-7	Potassium	5750	58.3	5.30	mg/kg
7782-49-2	Selenium	29.0	4.66	0.56	mg/kg
7440-22-4	Silver	28.6	1.17	0.10	mg/kg
7440-28-0	Thallium	25.2	2.33	0.29	mg/kg
7440-62-2	Vanadium	63.0	2.33	0.14	mg/kg
7440-66-6	Zinc	93.2	2.33	0.96	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	22500	117	10.2	mg/kg

SW-846 8015B Modified

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	25600	5770	750	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	AOCU-HA24-1-MSD	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	54.0	5.49	0.236	ug/Kg
71-55-6	1,1,1-Trichloroethane	58.1	5.49	0.211	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	66.1	5.49	0.216	ug/Kg
79-00-5	1,1,2-Trichloroethane	58.4	5.49	0.188	ug/Kg
75-34-3	1,1-Dichloroethane	56.9	5.49	0.193	ug/Kg
75-35-4	1,1-Dichloroethene	55.8	5.49	0.337	ug/Kg
563-58-6	1,1-Dichloropropene	57.7	5.49	0.217	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	42.8	5.49	0.124	ug/Kg
96-18-4	1,2,3-Trichloropropane	80.1	5.49	0.180	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	43.3	5.49	0.159	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	51.0	5.49	0.131	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	70.2	5.49	0.766	ug/Kg
106-93-4	1,2-Dibromoethane	57.7	5.49	0.602	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.8	5.49	0.279	ug/Kg
107-06-2	1,2-Dichloroethane	56.2	5.49	0.200	ug/Kg
78-87-5	1,2-Dichloropropane	59.7	5.49	0.135	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	48.1	5.49	0.125	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.4	5.49	0.155	ug/Kg
142-28-9	1,3-Dichloropropane	58.3	5.49	0.147	ug/Kg
106-46-7	1,4-Dichlorobenzene	50.1	5.49	0.156	ug/Kg
544-10-5	1-Chlorohexane	52.9	5.49	0.161	ug/Kg
594-20-7	2,2-Dichloropropane	55.8	5.49	0.334	ug/Kg
78-93-3	2-Butanone	63.5	5.49	0.697	ug/Kg
110-75-8	2-Chloroethylvinyl ether	54.5	5.49	1.32	ug/Kg
95-49-8	2-Chlorotoluene	50.4	5.49	0.190	ug/Kg
591-78-6	2-Hexanone	54.0	5.49	0.777	ug/Kg
106-43-4	4-Chlorotoluene	50.7	5.49	0.121	ug/Kg
99-87-6	4-Isopropyltoluene	46.8	5.49	0.093	ug/Kg
108-10-1	4-Methyl-2-pentanone	68.2	5.49	0.247	ug/Kg
67-64-1	Acetone	53.5	27.5	1.19	ug/Kg
75-05-8	Acetonitrile	322	110	1.83	ug/Kg
107-02-8	Acrolein	232	27.5	2.56	ug/Kg
107-13-1	Acrylonitrile	291	27.5	0.637	ug/Kg
107-05-1	Allyl chloride	53.3	5.49	0.605	ug/Kg
71-43-2	Benzene	58.3	5.49	0.116	ug/Kg
108-86-1	Bromobenzene	51.3	5.49	0.161	ug/Kg
74-97-5	Bromochloromethane	55.1	5.49	0.265	ug/Kg
75-27-4	Bromodichloromethane	57.5	5.49	0.148	ug/Kg
75-25-2	Bromoform	62.3	5.49	0.235	ug/Kg
74-83-9	Bromomethane	56.1	5.49	0.701	ug/Kg
75-15-0	Carbon disulfide	55.6	5.49	0.397	ug/Kg
56-23-5	Carbon tetrachloride	59.3	5.49	0.225	ug/Kg
108-90-7	Chlorobenzene	51.8	5.49	0.197	ug/Kg
75-00-3	Chloroethane	30.7	5.49	0.268	ug/Kg
67-66-3	Chloroform	56.5	5.49	0.247	ug/Kg
74-87-3	Chloromethane	58.7	5.49	0.621	ug/Kg
124-48-1	Dibromochloromethane	56.4	5.49	0.210	ug/Kg
74-95-3	Dibromomethane	57.2	5.49	0.213	ug/Kg
75-71-8	Dichlorodifluoromethane	63.2	5.49	0.131	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
97-63-2	Ethyl methacrylate	56.1	5.49	0.473	ug/Kg
100-41-4	Ethylbenzene	53.6	5.49	0.241	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	5.49	0.167	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	51.1	5.49	0.102	ug/Kg
126-98-7	Methacrylonitrile	63.6	5.49	0.484	ug/Kg
74-88-4	Methyl iodide	53.3	5.49	1.35	ug/Kg
80-62-6	Methyl methacrylate	64.7	5.49	0.878	ug/Kg
75-09-2	Methylene chloride	44.0	11.0	0.528	ug/Kg
91-20-3	Naphthalene	52.6	5.49	0.192	ug/Kg
76-01-7	Pentachloroethane	405	5.49	0.897	ug/Kg
107-12-0	Propionitrile	352	5.49	2.79	ug/Kg
100-42-5	Styrene	51.7	5.49	0.453	ug/Kg
127-18-4	Tetrachloroethene	65.7	5.49	0.224	ug/Kg
108-88-3	Toluene	56.1	5.49	0.290	ug/Kg
79-01-6	Trichloroethene	58.5	5.49	0.191	ug/Kg
75-69-4	Trichlorofluoromethane	60.7	5.49	0.224	ug/Kg
76-13-1	Trichlorotrifluoroethane	61.5	5.49	0.220	ug/Kg
108-05-4	Vinyl acetate	51.6	5.49	0.243	ug/Kg
75-01-4	Vinyl chloride	59.9	5.49	0.275	ug/Kg
156-59-2	cis-1,2-Dichloroethene	53.0	5.49	0.142	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	56.8	5.49	0.358	ug/Kg
136777-61-2	m,p-Xylene	106	5.49	0.390	ug/Kg
104-51-8	n-Butylbenzene	43.8	5.49	0.156	ug/Kg
110-54-3	n-Hexane	57.7	5.49	0.354	ug/Kg
103-65-1	n-Propylbenzene	50.2	5.49	0.121	ug/Kg
95-47-6	o-Xylene	51.7	5.49	0.158	ug/Kg
135-98-8	sec-Butylbenzene	47.3	5.49	0.119	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	53.7	5.49	0.263	ug/Kg
98-06-6	tert-Butylbenzene	48.8	5.49	0.152	ug/Kg
156-60-5	trans-1,2-Dichloroethene	57.1	5.49	0.350	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	55.8	5.49	0.522	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	138	5.49	0.569	ug/Kg

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	3470	476	16.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	3440	476	15.0	ug/Kg
121-14-2	2,4-Dinitrotoluene	3890	476	28.8	ug/Kg
95-57-8	2-Chlorophenol	2910	476	16.7	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2930	476	45.4	ug/Kg
100-02-7	4-Nitrophenol	2610	2380	134	ug/Kg
83-32-9	Acenaphthene	3550	476	18.9	ug/Kg
87-86-5	Pentachlorophenol	2450	2380	182	ug/Kg
108-95-2	Phenol	2770	476	28.6	ug/Kg
129-00-0	Pyrene	4210	476	22.1	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	3760	476	21.8	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	19100	23.3	1.84	mg/kg
7440-36-0	Antimony	5.67B	6.99	0.34	mg/kg
7440-38-2	Arsenic	34.7	4.66	0.26	mg/kg
7440-39-3	Barium	132	1.17	0.032	mg/kg
7440-41-7	Beryllium	29.8	0.58	0.0081	mg/kg
7440-43-9	Cadmium	27.6	0.58	0.028	mg/kg
7440-70-2	Calcium	130000	87.4	2.68	mg/kg
7440-47-3	Chromium	47.3	1.17	0.034	mg/kg
7440-48-4	Cobalt	33.2	1.17	0.064	mg/kg
7440-50-8	Copper	41.0	1.17	0.096	mg/kg
7439-89-6	Iron	20400	11.7	2.64	mg/kg
7439-92-1	Lead	40.0	1.75	0.21	mg/kg
7439-95-4	Magnesium	17800	11.7	3.90	mg/kg
7439-96-5	Manganese	331	1.75	0.11	mg/kg
7440-02-0	Nickel	44.6	4.66	0.091	mg/kg
7440-09-7	Potassium	5970	58.3	5.30	mg/kg
7782-49-2	Selenium	29.6	4.66	0.56	mg/kg
7440-22-4	Silver	28.0	1.17	0.10	mg/kg
7440-28-0	Thallium	24.8	2.33	0.29	mg/kg
7440-62-2	Vanadium	60.9	2.33	0.14	mg/kg
7440-66-6	Zinc	92.4	2.33	0.96	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	22000	117	10.2	mg/kg

SW-846 8015B Modified

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	26500	5810	755	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	73500	19300	2770	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	117	7.28	0.379	mg/kg-N

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44200	5830	1880	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.45	0.017	0.0050	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	4340J	18600	2660	ug/Kg

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
117-81-7	Bis(2-Ethylhexyl)phthalate	117J	464	27.5	ug/Kg

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CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.17J	6.97	0.885	ug/Kg
67-64-1	Acetone	19.7J	34.8	1.51	ug/Kg
71-43-2	Benzene	6.24J	6.97	0.148	ug/Kg
67-66-3	Chloroform	0.958J	6.97	0.314	ug/Kg
108-88-3	Toluene	4.92J	6.97	0.368	ug/Kg
136777-61-2	m,p-Xylene	0.655J	6.97	0.495	ug/Kg
110-54-3	n-Hexane	2.63J	6.97	0.449	ug/Kg
95-47-6	o-Xylene	1.55J	6.97	0.201	ug/Kg

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CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0077B	0.017	0.0048	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	35.6	3.51	0.183	mg/kg-N

SW-846 8015B Modified

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	972J	6380	830	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	10700	22.5	1.77	mg/kg
7440-38-2	Arsenic	3.83B	4.50	0.25	mg/kg
7440-39-3	Barium	87.6	1.12	0.031	mg/kg
7440-41-7	Beryllium	0.93	0.56	0.0078	mg/kg
7440-70-2	Calcium	145000	84.3	2.59	mg/kg
7440-47-3	Chromium	14.2	1.12	0.033	mg/kg
7440-48-4	Cobalt	5.80	1.12	0.061	mg/kg
7440-50-8	Copper	11.5	1.12	0.092	mg/kg
7439-89-6	Iron	14600	11.2	2.55	mg/kg
7439-92-1	Lead	10.3	1.69	0.20	mg/kg
7439-95-4	Magnesium	18700	11.2	3.76	mg/kg
7439-96-5	Manganese	293	1.69	0.11	mg/kg
7440-02-0	Nickel	14.3	4.50	0.088	mg/kg
7440-09-7	Potassium	2970	56.2	5.11	mg/kg
7440-62-2	Vanadium	27.0	2.25	0.14	mg/kg
7440-66-6	Zinc	47.8	2.25	0.93	mg/kg

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CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.42B	0.56	0.027	mg/kg
7782-49-2	Selenium	0.88B	4.50	0.54	mg/kg
7440-23-5	Sodium	20800	112	9.86	mg/kg
7440-28-0	Thallium	1.12B	2.25	0.28	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.014B	0.019	0.0053	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	21.4	7.73	0.981	ug/Kg
67-64-1	Acetone	60.9	38.6	1.67	ug/Kg
71-43-2	Benzene	6.42J	7.73	0.164	ug/Kg
67-66-3	Chloroform	1.39J	7.73	0.348	ug/Kg
108-88-3	Toluene	4.48J	7.73	0.408	ug/Kg
110-54-3	n-Hexane	4.93J	7.73	0.498	ug/Kg
95-47-6	o-Xylene	1.56J	7.73	0.223	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	14400	12.7	1.00	mg/kg
7440-38-2	Arsenic	5.06	2.54	0.14	mg/kg
7440-39-3	Barium	134	0.64	0.017	mg/kg
7440-41-7	Beryllium	1.69	0.32	0.0044	mg/kg
7440-43-9	Cadmium	0.86	0.32	0.015	mg/kg
7440-70-2	Calcium	97500	47.7	1.46	mg/kg
7440-47-3	Chromium	21.1	0.64	0.018	mg/kg
7440-48-4	Cobalt	11.8	0.64	0.035	mg/kg
7440-50-8	Copper	17.6	0.64	0.052	mg/kg
7439-89-6	Iron	21200	6.36	1.44	mg/kg
7439-92-1	Lead	14.8	0.95	0.11	mg/kg
7439-95-4	Magnesium	13300	6.36	2.13	mg/kg
7439-96-5	Manganese	327	0.95	0.062	mg/kg
7440-02-0	Nickel	23.2	2.54	0.050	mg/kg
7440-09-7	Potassium	4460	31.8	2.89	mg/kg
7782-49-2	Selenium	1.05B	2.54	0.31	mg/kg
7440-28-0	Thallium	0.36B	1.27	0.16	mg/kg
7440-62-2	Vanadium	40.1	1.27	0.079	mg/kg
7440-66-6	Zinc	77.5	1.27	0.53	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	16600	63.6	5.58	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	4250	22.7	1.79	mg/kg
7440-38-2	Arsenic	3.08B	4.53	0.25	mg/kg
7440-39-3	Barium	40.5	1.13	0.031	mg/kg
7440-41-7	Beryllium	0.17B	0.57	0.0078	mg/kg
7440-70-2	Calcium	175000	85.0	2.61	mg/kg
7440-47-3	Chromium	3.90	1.13	0.033	mg/kg
7440-48-4	Cobalt	1.99	1.13	0.062	mg/kg
7440-50-8	Copper	7.03	1.13	0.093	mg/kg
7439-89-6	Iron	4980	11.3	2.57	mg/kg
7439-92-1	Lead	3.02	1.70	0.20	mg/kg
7439-95-4	Magnesium	27300	11.3	3.80	mg/kg
7439-96-5	Manganese	179	1.70	0.11	mg/kg
7440-02-0	Nickel	3.33B	4.53	0.089	mg/kg
7440-09-7	Potassium	1270	56.6	5.15	mg/kg
7440-22-4	Silver	0.14B	1.13	0.099	mg/kg
7440-62-2	Vanadium	11.7	2.27	0.14	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	Zinc	16.9	2.27	0.94	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-43-9	Cadmium	0.38B	0.57	0.028	mg/kg
7782-49-2	Selenium	1.21B	4.53	0.54	mg/kg
7440-23-5	Sodium	14000	113	9.94	mg/kg
7440-28-0	Thallium	0.45B	2.27	0.28	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	16.6	5.89	0.748	ug/Kg
67-64-1	Acetone	66.4	29.5	1.27	ug/Kg
71-43-2	Benzene	1.87J	5.89	0.125	ug/Kg
67-66-3	Chloroform	0.980J	5.89	0.265	ug/Kg
108-88-3	Toluene	1.52J	5.89	0.311	ug/Kg
110-54-3	n-Hexane	1.52J	5.89	0.379	ug/Kg
95-47-6	o-Xylene	0.959J	5.89	0.170	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 01:41	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.269U	6.25	0.269	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.240U	6.25	0.240	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.246U	6.25	0.246	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.214U	6.25	0.214	ug/Kg
75-34-3	1,1-Dichloroethane	0.220U	6.25	0.220	ug/Kg
75-35-4	1,1-Dichloroethene	0.384U	6.25	0.384	ug/Kg
563-58-6	1,1-Dichloropropene	0.248U	6.25	0.248	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.141U	6.25	0.141	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.205U	6.25	0.205	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.181U	6.25	0.181	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.149U	6.25	0.149	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.872U	6.25	0.872	ug/Kg
106-93-4	1,2-Dibromoethane	0.685U	6.25	0.685	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.318U	6.25	0.318	ug/Kg
107-06-2	1,2-Dichloroethane	0.228U	6.25	0.228	ug/Kg
78-87-5	1,2-Dichloropropane	0.154U	6.25	0.154	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.143U	6.25	0.143	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.176U	6.25	0.176	ug/Kg
142-28-9	1,3-Dichloropropane	0.168U	6.25	0.168	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.178U	6.25	0.178	ug/Kg
544-10-5	1-Chlorohexane	0.184U	6.25	0.184	ug/Kg
594-20-7	2,2-Dichloropropane	0.380U	6.25	0.380	ug/Kg
78-93-3	**2-Butanone**	**6.51**	**6.25**	**0.794**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.50U	6.25	1.50	ug/Kg
95-49-8	2-Chlorotoluene	0.216U	6.25	0.216	ug/Kg
591-78-6	2-Hexanone	0.884U	6.25	0.884	ug/Kg
106-43-4	4-Chlorotoluene	0.138U	6.25	0.138	ug/Kg
99-87-6	4-Isopropyltoluene	0.106U	6.25	0.106	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.281U	6.25	0.281	ug/Kg
67-64-1	**Acetone**	**30.7J**	**31.3**	**1.35**	**ug/Kg**
75-05-8	Acetonitrile	2.09U	125	2.09	ug/Kg
107-02-8	Acrolein	2.91U	31.3	2.91	ug/Kg
107-13-1	Acrylonitrile	0.725U	31.3	0.725	ug/Kg
107-05-1	Allyl chloride	0.689U	6.25	0.689	ug/Kg
71-43-2	**Benzene**	**3.03J**	**6.25**	**0.133**	**ug/Kg**
108-86-1	Bromobenzene	0.184U	6.25	0.184	ug/Kg
74-97-5	Bromochloromethane	0.301U	6.25	0.301	ug/Kg
75-27-4	Bromodichloromethane	0.169U	6.25	0.169	ug/Kg
75-25-2	Bromoform	0.268U	6.25	0.268	ug/Kg
74-83-9	Bromomethane	0.798U	6.25	0.798	ug/Kg
75-15-0	Carbon disulfide	0.451U	6.25	0.451	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 01:41	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.256U	6.25	0.256	ug/Kg
108-90-7	Chlorobenzene	0.224U	6.25	0.224	ug/Kg
75-00-3	Chloroethane	0.305U	6.25	0.305	ug/Kg
67-66-3	**Chloroform**	**0.969J**	**6.25**	**0.281**	**ug/Kg**
74-87-3	Chloromethane	0.707U	6.25	0.707	ug/Kg
124-48-1	Dibromochloromethane	0.239U	6.25	0.239	ug/Kg
74-95-3	Dibromomethane	0.243U	6.25	0.243	ug/Kg
75-71-8	Dichlorodifluoromethane	0.149U	6.25	0.149	ug/Kg
97-63-2	Ethyl methacrylate	0.539U	6.25	0.539	ug/Kg
100-41-4	Ethylbenzene	0.274U	6.25	0.274	ug/Kg
87-68-3	Hexachlorobutadiene	0.190U	6.25	0.190	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.117U	6.25	0.117	ug/Kg
126-98-7	Methacrylonitrile	0.552U	6.25	0.552	ug/Kg
74-88-4	Methyl iodide	1.54U	6.25	1.54	ug/Kg
80-62-6	Methyl methacrylate	0.999U	6.25	0.999	ug/Kg
75-09-2	Methylene chloride	0.602U	12.5	0.602	ug/Kg
91-20-3	Naphthalene	0.219U	6.25	0.219	ug/Kg
76-01-7	Pentachloroethane	1.02U	6.25	1.02	ug/Kg
107-12-0	Propionitrile	3.18U	6.25	3.18	ug/Kg
100-42-5	Styrene	0.515U	6.25	0.515	ug/Kg
127-18-4	Tetrachloroethene	0.255U	6.25	0.255	ug/Kg
108-88-3	**Toluene**	**2.65J**	**6.25**	**0.330**	**ug/Kg**
79-01-6	Trichloroethene	0.218U	6.25	0.218	ug/Kg
75-69-4	Trichlorofluoromethane	0.255U	6.25	0.255	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.250U	6.25	0.250	ug/Kg
108-05-4	Vinyl acetate	0.276U	6.25	0.276	ug/Kg
75-01-4	Vinyl chloride	0.313U	6.25	0.313	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.161U	6.25	0.161	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.408U	6.25	0.408	ug/Kg
136777-61-2	m,p-Xylene	0.444U	6.25	0.444	ug/Kg
104-51-8	n-Butylbenzene	0.178U	6.25	0.178	ug/Kg
110-54-3	**n-Hexane**	**1.49J**	**6.25**	**0.403**	**ug/Kg**
103-65-1	n-Propylbenzene	0.138U	6.25	0.138	ug/Kg
95-47-6	**o-Xylene**	**1.14J**	**6.25**	**0.180**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.135U	6.25	0.135	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.299U	6.25	0.299	ug/Kg
98-06-6	tert-Butylbenzene	0.173U	6.25	0.173	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.399U	6.25	0.399	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.594U	6.25	0.594	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.648U	6.25	0.648	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	45.4	45.2	ug/Kg	100	59 - 148
1868-53-7	Dibromofluoromethane	45.4	46.3	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	45.4	46	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	45.4	49	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.6U	455	15.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.3U	455	15.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.2U	455	17.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.3U	455	14.3	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.7U	455	30.7	ug/Kg
88-06-2	2,4,6-Trichlorophenol	108U	455	108	ug/Kg
120-83-2	2,4-Dichlorophenol	48.8U	455	48.8	ug/Kg
105-67-9	2,4-Dimethylphenol	321U	455	321	ug/Kg
51-28-5	2,4-Dinitrophenol	209U	455	209	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.6U	455	27.6	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7U	455	36.7	ug/Kg
91-58-7	2-Chloronaphthalene	14.6U	455	14.6	ug/Kg
95-57-8	2-Chlorophenol	16.0U	455	16.0	ug/Kg
91-57-6	2-Methylnaphthalene	12.3U	455	12.3	ug/Kg
88-74-4	2-Nitroaniline	33.1U	2270	33.1	ug/Kg
88-75-5	2-Nitrophenol	33.8U	455	33.8	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	422U	910	422	ug/Kg
99-09-2	3-Nitroaniline	30.3U	2270	30.3	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	207U	2270	207	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.5U	455	25.5	ug/Kg
59-50-7	4-Chloro-3-methylphenol	43.4U	455	43.4	ug/Kg
106-47-8	4-Chloroaniline	30.6U	455	30.6	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.8U	455	25.8	ug/Kg
100-01-6	4-Nitroaniline	225U	2270	225	ug/Kg
100-02-7	4-Nitrophenol	128U	2270	128	ug/Kg
83-32-9	Acenaphthene	18.1U	455	18.1	ug/Kg
208-96-8	Acenaphthylene	18.1U	455	18.1	ug/Kg
120-12-7	Anthracene	15.7U	455	15.7	ug/Kg
92-87-5	Benzidine	2270U	2270	2270	ug/Kg
56-55-3	Benzo(a)anthracene	35.6U	455	35.6	ug/Kg
50-32-8	Benzo(a)pyrene	17.0U	455	17.0	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.9U	455	41.9	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.5U	455	14.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.5U	455	18.5	ug/Kg
65-85-0	Benzoic acid	93.7U	2270	93.7	ug/Kg
100-51-6	Benzyl alcohol	62.2U	455	62.2	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.6U	455	35.6	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	33.5U	455	33.5	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.4U	455	28.4	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.0U	455	27.0	ug/Kg
85-68-7	Butyl benzyl phthalate	8.17U	455	8.17	ug/Kg
218-01-9	Chrysene	20.0U	455	20.0	ug/Kg
84-74-2	Di-n-butyl phthalate	18.1U	455	18.1	ug/Kg
117-84-0	Di-n-octyl phthalate	6.12U	455	6.12	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.8U	455	15.8	ug/Kg
132-64-9	Dibenzofuran	14.7U	455	14.7	ug/Kg
84-66-2	Diethyl phthalate	28.0U	455	28.0	ug/Kg
131-11-3	Dimethyl phthalate	19.4U	455	19.4	ug/Kg
206-44-0	Fluoranthene	8.99U	455	8.99	ug/Kg
86-73-7	Fluorene	17.8U	455	17.8	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	26.3U	455	26.3	ug/Kg
87-68-3	Hexachlorobutadiene	27.6U	455	27.6	ug/Kg
77-47-4	Hexachlorocyclopentadiene	165U	455	165	ug/Kg
67-72-1	Hexachloroethane	21.9U	455	21.9	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42.6U	455	42.6	ug/Kg
78-59-1	Isophorone	16.0U	455	16.0	ug/Kg
91-20-3	Naphthalene	18.2U	455	18.2	ug/Kg
98-95-3	Nitrobenzene	25.4U	455	25.4	ug/Kg
87-86-5	Pentachlorophenol	174U	2270	174	ug/Kg
85-01-8	Phenanthrene	14.6U	455	14.6	ug/Kg
108-95-2	Phenol	27.3U	455	27.3	ug/Kg
129-00-0	Pyrene	21.1U	455	21.1	ug/Kg
1319-77-3MP	m,p-Cresol	64.2U	455	64.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.8U	455	20.8	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.5U	455	14.5	ug/Kg
95-48-7	o-Cresol	16.1U	455	16.1	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1290	ug/Kg	77	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1300	ug/Kg	78	46 - 122
1718-51-0	Terphenyl-d14	1670	1500	ug/Kg	90	45 - 135
4165-62-2	Phenol-d5	3330	2970	ug/Kg	89	44 - 124
367-12-4	2-Fluorophenol	3330	2840	ug/Kg	85	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2820	ug/Kg	85	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 21:25	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**2500J**	**5510**	**1780**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1440	ug/Kg	86	67 - 120

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/18/2011 17:53	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	775U	5960	775	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1300	1220	ug/Kg	94	47 - 164

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 21:25	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2630U	18300	2630	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1390	ug/Kg	83	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:25	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0053B**	**0.016**	**0.0046**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 17:31	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4110**	**21.9**	**1.73**	**mg/kg**
7440-36-0	**Antimony**	**0.40B**	**6.56**	**0.32**	**mg/kg**
7440-38-2	**Arsenic**	**1.94B**	**4.38**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**39.9**	**1.09**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.19B**	**0.55**	**0.0076**	**mg/kg**
7440-43-9	**Cadmium**	**0.52B**	**0.55**	**0.027**	**mg/kg**
7440-70-2	**Calcium**	**197000**	**82.0**	**2.52**	**mg/kg**
7440-47-3	**Chromium**	**3.87**	**1.09**	**0.032**	**mg/kg**
7440-48-4	**Cobalt**	**1.51**	**1.09**	**0.060**	**mg/kg**
7440-50-8	**Copper**	**5.54**	**1.09**	**0.090**	**mg/kg**
7439-89-6	**Iron**	**3960**	**10.9**	**2.48**	**mg/kg**
7439-92-1	**Lead**	**3.18**	**1.64**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**19800**	**10.9**	**3.66**	**mg/kg**
7439-96-5	**Manganese**	**131**	**1.64**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**3.35B**	**4.38**	**0.086**	**mg/kg**
7440-09-7	**Potassium**	**1560**	**54.7**	**4.98**	**mg/kg**
7782-49-2	**Selenium**	**0.58B**	**4.38**	**0.53**	**mg/kg**
7440-22-4	**Silver**	**0.25B**	**1.09**	**0.095**	**mg/kg**
7440-28-0	Thallium	0.27U	2.19	0.27	mg/kg
7440-62-2	**Vanadium**	**8.14**	**2.19**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**15.4**	**2.19**	**0.91**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121301	**AOCU-HA20-2**	Solid	07/11/2011 08:50	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 14:42	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**17700**	**109**	**9.60**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	5	07/15/2011 17:01	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**35.7**	**3.45**	**0.179**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**27.4**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:08	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.273U	6.36	0.273	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.244U	6.36	0.244	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.251U	6.36	0.251	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.217U	6.36	0.217	ug/Kg
75-34-3	1,1-Dichloroethane	0.224U	6.36	0.224	ug/Kg
75-35-4	1,1-Dichloroethene	0.390U	6.36	0.390	ug/Kg
563-58-6	1,1-Dichloropropene	0.252U	6.36	0.252	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.144U	6.36	0.144	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.209U	6.36	0.209	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.184U	6.36	0.184	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.151U	6.36	0.151	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.887U	6.36	0.887	ug/Kg
106-93-4	1,2-Dibromoethane	0.697U	6.36	0.697	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.323U	6.36	0.323	ug/Kg
107-06-2	1,2-Dichloroethane	0.231U	6.36	0.231	ug/Kg
78-87-5	1,2-Dichloropropane	0.156U	6.36	0.156	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.145U	6.36	0.145	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.179U	6.36	0.179	ug/Kg
142-28-9	1,3-Dichloropropane	0.170U	6.36	0.170	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.181U	6.36	0.181	ug/Kg
544-10-5	1-Chlorohexane	0.187U	6.36	0.187	ug/Kg
594-20-7	2,2-Dichloropropane	0.387U	6.36	0.387	ug/Kg
78-93-3	**2-Butanone**	**6.34J**	**6.36**	**0.808**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.53U	6.36	1.53	ug/Kg
95-49-8	2-Chlorotoluene	0.220U	6.36	0.220	ug/Kg
591-78-6	2-Hexanone	0.899U	6.36	0.899	ug/Kg
106-43-4	4-Chlorotoluene	0.140U	6.36	0.140	ug/Kg
99-87-6	4-Isopropyltoluene	0.108U	6.36	0.108	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.286U	6.36	0.286	ug/Kg
67-64-1	**Acetone**	**22.7J**	**31.8**	**1.37**	**ug/Kg**
75-05-8	Acetonitrile	2.12U	127	2.12	ug/Kg
107-02-8	Acrolein	2.96U	31.8	2.96	ug/Kg
107-13-1	Acrylonitrile	0.738U	31.8	0.738	ug/Kg
107-05-1	Allyl chloride	0.701U	6.36	0.701	ug/Kg
71-43-2	**Benzene**	**4.37J**	**6.36**	**0.135**	**ug/Kg**
108-86-1	Bromobenzene	0.187U	6.36	0.187	ug/Kg
74-97-5	Bromochloromethane	0.307U	6.36	0.307	ug/Kg
75-27-4	Bromodichloromethane	0.172U	6.36	0.172	ug/Kg
75-25-2	Bromoform	0.272U	6.36	0.272	ug/Kg
74-83-9	Bromomethane	0.811U	6.36	0.811	ug/Kg
75-15-0	Carbon disulfide	0.459U	6.36	0.459	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:08	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.261U	6.36	0.261	ug/Kg
108-90-7	Chlorobenzene	0.228U	6.36	0.228	ug/Kg
75-00-3	Chloroethane	0.310U	6.36	0.310	ug/Kg
67-66-3	**Chloroform**	**1.20J**	**6.36**	**0.286**	**ug/Kg**
74-87-3	Chloromethane	0.719U	6.36	0.719	ug/Kg
124-48-1	Dibromochloromethane	0.243U	6.36	0.243	ug/Kg
74-95-3	Dibromomethane	0.247U	6.36	0.247	ug/Kg
75-71-8	Dichlorodifluoromethane	0.151U	6.36	0.151	ug/Kg
97-63-2	Ethyl methacrylate	0.548U	6.36	0.548	ug/Kg
100-41-4	Ethylbenzene	0.279U	6.36	0.279	ug/Kg
87-68-3	Hexachlorobutadiene	0.193U	6.36	0.193	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.119U	6.36	0.119	ug/Kg
126-98-7	Methacrylonitrile	0.561U	6.36	0.561	ug/Kg
74-88-4	Methyl iodide	1.56U	6.36	1.56	ug/Kg
80-62-6	Methyl methacrylate	1.02U	6.36	1.02	ug/Kg
75-09-2	Methylene chloride	0.612U	12.7	0.612	ug/Kg
91-20-3	Naphthalene	0.223U	6.36	0.223	ug/Kg
76-01-7	Pentachloroethane	1.04U	6.36	1.04	ug/Kg
107-12-0	Propionitrile	3.23U	6.36	3.23	ug/Kg
100-42-5	Styrene	0.524U	6.36	0.524	ug/Kg
127-18-4	Tetrachloroethene	0.259U	6.36	0.259	ug/Kg
108-88-3	**Toluene**	**2.92J**	**6.36**	**0.336**	**ug/Kg**
79-01-6	Trichloroethene	0.221U	6.36	0.221	ug/Kg
75-69-4	Trichlorofluoromethane	0.259U	6.36	0.259	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.254U	6.36	0.254	ug/Kg
108-05-4	Vinyl acetate	0.281U	6.36	0.281	ug/Kg
75-01-4	Vinyl chloride	0.318U	6.36	0.318	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.164U	6.36	0.164	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.415U	6.36	0.415	ug/Kg
136777-61-2	m,p-Xylene	0.452U	6.36	0.452	ug/Kg
104-51-8	n-Butylbenzene	0.181U	6.36	0.181	ug/Kg
110-54-3	**n-Hexane**	**2.16J**	**6.36**	**0.410**	**ug/Kg**
103-65-1	n-Propylbenzene	0.140U	6.36	0.140	ug/Kg
95-47-6	**o-Xylene**	**1.20J**	**6.36**	**0.183**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.137U	6.36	0.137	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.304U	6.36	0.304	ug/Kg
98-06-6	tert-Butylbenzene	0.176U	6.36	0.176	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.406U	6.36	0.406	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.604U	6.36	0.604	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.659U	6.36	0.659	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	46.1	45.6	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	46.1	47.2	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	46.1	47	ug/Kg	102	71 - 130
17060-07-0	1,2-Dichloroethane-d4	46.1	50	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:08	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:16	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.5U	453	15.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.3U	453	15.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.2U	453	17.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.3U	453	14.3	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.6U	453	30.6	ug/Kg
88-06-2	2,4,6-Trichlorophenol	108U	453	108	ug/Kg
120-83-2	2,4-Dichlorophenol	48.6U	453	48.6	ug/Kg
105-67-9	2,4-Dimethylphenol	320U	453	320	ug/Kg
51-28-5	2,4-Dinitrophenol	209U	453	209	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.5U	453	27.5	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.6U	453	36.6	ug/Kg
91-58-7	2-Chloronaphthalene	14.6U	453	14.6	ug/Kg
95-57-8	2-Chlorophenol	15.9U	453	15.9	ug/Kg
91-57-6	2-Methylnaphthalene	12.3U	453	12.3	ug/Kg
88-74-4	2-Nitroaniline	33.0U	2270	33.0	ug/Kg
88-75-5	2-Nitrophenol	33.7U	453	33.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	420U	907	420	ug/Kg
99-09-2	3-Nitroaniline	30.2U	2270	30.2	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	206U	2270	206	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.4U	453	25.4	ug/Kg
59-50-7	4-Chloro-3-methylphenol	43.3U	453	43.3	ug/Kg
106-47-8	4-Chloroaniline	30.5U	453	30.5	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.7U	453	25.7	ug/Kg
100-01-6	4-Nitroaniline	224U	2270	224	ug/Kg
100-02-7	4-Nitrophenol	128U	2270	128	ug/Kg
83-32-9	Acenaphthene	18.0U	453	18.0	ug/Kg
208-96-8	Acenaphthylene	18.0U	453	18.0	ug/Kg
120-12-7	Anthracene	15.7U	453	15.7	ug/Kg
92-87-5	Benzidine	2270U	2270	2270	ug/Kg
56-55-3	Benzo(a)anthracene	35.5U	453	35.5	ug/Kg
50-32-8	Benzo(a)pyrene	16.9U	453	16.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.8U	453	41.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.4U	453	14.4	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.4U	453	18.4	ug/Kg
65-85-0	Benzoic acid	93.4U	2270	93.4	ug/Kg
100-51-6	Benzyl alcohol	62.0U	453	62.0	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.5U	453	35.5	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	33.4U	453	33.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.3U	453	28.3	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.9U	453	26.9	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:16	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.15U	453	8.15	ug/Kg
218-01-9	Chrysene	19.9U	453	19.9	ug/Kg
84-74-2	Di-n-butyl phthalate	18.0U	453	18.0	ug/Kg
117-84-0	Di-n-octyl phthalate	6.10U	453	6.10	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.8U	453	15.8	ug/Kg
132-64-9	Dibenzofuran	14.7U	453	14.7	ug/Kg
84-66-2	Diethyl phthalate	27.9U	453	27.9	ug/Kg
131-11-3	Dimethyl phthalate	19.4U	453	19.4	ug/Kg
206-44-0	Fluoranthene	8.96U	453	8.96	ug/Kg
86-73-7	Fluorene	17.7U	453	17.7	ug/Kg
118-74-1	Hexachlorobenzene	26.2U	453	26.2	ug/Kg
87-68-3	Hexachlorobutadiene	27.5U	453	27.5	ug/Kg
77-47-4	Hexachlorocyclopentadiene	165U	453	165	ug/Kg
67-72-1	Hexachloroethane	21.8U	453	21.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42.5U	453	42.5	ug/Kg
78-59-1	Isophorone	15.9U	453	15.9	ug/Kg
91-20-3	Naphthalene	18.1U	453	18.1	ug/Kg
98-95-3	Nitrobenzene	25.3U	453	25.3	ug/Kg
87-86-5	Pentachlorophenol	173U	2270	173	ug/Kg
85-01-8	Phenanthrene	14.6U	453	14.6	ug/Kg
108-95-2	Phenol	27.2U	453	27.2	ug/Kg
129-00-0	Pyrene	21.0U	453	21.0	ug/Kg
1319-77-3MP	m,p-Cresol	64.0U	453	64.0	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.7U	453	20.7	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.4U	453	14.4	ug/Kg
95-48-7	o-Cresol	16.1U	453	16.1	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1270	ug/Kg	76	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1230	ug/Kg	74	46 - 122
1718-51-0	Terphenyl-d14	1660	1470	ug/Kg	88	45 - 135
4165-62-2	Phenol-d5	3320	2760	ug/Kg	83	44 - 124
367-12-4	2-Fluorophenol	3320	2710	ug/Kg	82	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2630	ug/Kg	79	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 21:43	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1780U	5510	1780	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1450	ug/Kg	87	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/18/2011 23:37	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	593U	4560	593	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	992	969	ug/Kg	98	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 21:43	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2630U	18300	2630	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1390	ug/Kg	83	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:27	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0061B**	**0.017**	**0.0047**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 17:37	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**8140**	**22.1**	**1.74**	**mg/kg**
7440-36-0	**Antimony**	**0.96B**	**6.62**	**0.33**	**mg/kg**
7440-38-2	**Arsenic**	**2.83B**	**4.41**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**67.5**	**1.10**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.66**	**0.55**	**0.0076**	**mg/kg**
7440-43-9	**Cadmium**	**0.45B**	**0.55**	**0.027**	**mg/kg**
7440-70-2	**Calcium**	**179000**	**82.7**	**2.54**	**mg/kg**
7440-47-3	**Chromium**	**10.5**	**1.10**	**0.032**	**mg/kg**
7440-48-4	**Cobalt**	**4.02**	**1.10**	**0.060**	**mg/kg**
7440-50-8	**Copper**	**9.99**	**1.10**	**0.090**	**mg/kg**
7439-89-6	**Iron**	**10400**	**11.0**	**2.50**	**mg/kg**
7439-92-1	**Lead**	**8.66**	**1.65**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**19000**	**11.0**	**3.70**	**mg/kg**
7439-96-5	**Manganese**	**207**	**1.65**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**9.69**	**4.41**	**0.087**	**mg/kg**
7440-09-7	**Potassium**	**2580**	**55.1**	**5.02**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121303	**AOCU-HA22-2**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 17:37	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.53U	4.41	0.53	mg/kg
7440-22-4	Silver	0.096U	1.10	0.096	mg/kg
7440-28-0	Thallium	0.27U	2.21	0.27	mg/kg
7440-62-2	**Vanadium**	**19.5**	**2.21**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**38.1**	**2.21**	**0.91**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 14:48	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**15900**	**110**	**9.68**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	2	07/15/2011 17:02	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**17.0**	**1.38**	**0.072**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**27.5**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:34	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.243U	5.66	0.243	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.217U	5.66	0.217	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.223U	5.66	0.223	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.194U	5.66	0.194	ug/Kg
75-34-3	1,1-Dichloroethane	0.199U	5.66	0.199	ug/Kg
75-35-4	1,1-Dichloroethene	0.347U	5.66	0.347	ug/Kg
563-58-6	1,1-Dichloropropene	0.224U	5.66	0.224	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.128U	5.66	0.128	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.186U	5.66	0.186	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.164U	5.66	0.164	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.135U	5.66	0.135	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.789U	5.66	0.789	ug/Kg
106-93-4	1,2-Dibromoethane	0.620U	5.66	0.620	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.287U	5.66	0.287	ug/Kg
107-06-2	1,2-Dichloroethane	0.206U	5.66	0.206	ug/Kg
78-87-5	1,2-Dichloropropane	0.139U	5.66	0.139	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.129U	5.66	0.129	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.160U	5.66	0.160	ug/Kg
142-28-9	1,3-Dichloropropane	0.152U	5.66	0.152	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.161U	5.66	0.161	ug/Kg
544-10-5	1-Chlorohexane	0.166U	5.66	0.166	ug/Kg
594-20-7	2,2-Dichloropropane	0.344U	5.66	0.344	ug/Kg
78-93-3	**2-Butanone**	**6.45**	**5.66**	**0.719**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.36U	5.66	1.36	ug/Kg
95-49-8	2-Chlorotoluene	0.196U	5.66	0.196	ug/Kg
591-78-6	2-Hexanone	0.800U	5.66	0.800	ug/Kg
106-43-4	4-Chlorotoluene	0.124U	5.66	0.124	ug/Kg
99-87-6	4-Isopropyltoluene	0.096U	5.66	0.096	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.255U	5.66	0.255	ug/Kg
67-64-1	**Acetone**	**19.0J**	**28.3**	**1.22**	**ug/Kg**
75-05-8	Acetonitrile	1.89U	113	1.89	ug/Kg
107-02-8	Acrolein	2.64U	28.3	2.64	ug/Kg
107-13-1	Acrylonitrile	0.656U	28.3	0.656	ug/Kg
107-05-1	Allyl chloride	0.624U	5.66	0.624	ug/Kg
71-43-2	**Benzene**	**4.92J**	**5.66**	**0.120**	**ug/Kg**
108-86-1	Bromobenzene	0.166U	5.66	0.166	ug/Kg
74-97-5	Bromochloromethane	0.273U	5.66	0.273	ug/Kg
75-27-4	Bromodichloromethane	0.153U	5.66	0.153	ug/Kg
75-25-2	Bromoform	0.242U	5.66	0.242	ug/Kg
74-83-9	Bromomethane	0.722U	5.66	0.722	ug/Kg
75-15-0	Carbon disulfide	0.409U	5.66	0.409	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:34	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.232U	5.66	0.232	ug/Kg
108-90-7	Chlorobenzene	0.203U	5.66	0.203	ug/Kg
75-00-3	Chloroethane	0.276U	5.66	0.276	ug/Kg
67-66-3	**Chloroform**	**1.00J**	**5.66**	**0.255**	**ug/Kg**
74-87-3	Chloromethane	0.639U	5.66	0.639	ug/Kg
124-48-1	Dibromochloromethane	0.216U	5.66	0.216	ug/Kg
74-95-3	Dibromomethane	0.220U	5.66	0.220	ug/Kg
75-71-8	Dichlorodifluoromethane	0.135U	5.66	0.135	ug/Kg
97-63-2	Ethyl methacrylate	0.488U	5.66	0.488	ug/Kg
100-41-4	Ethylbenzene	0.248U	5.66	0.248	ug/Kg
87-68-3	Hexachlorobutadiene	0.172U	5.66	0.172	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.105U	5.66	0.105	ug/Kg
126-98-7	Methacrylonitrile	0.499U	5.66	0.499	ug/Kg
74-88-4	Methyl iodide	1.39U	5.66	1.39	ug/Kg
80-62-6	Methyl methacrylate	0.904U	5.66	0.904	ug/Kg
75-09-2	Methylene chloride	0.544U	11.3	0.544	ug/Kg
91-20-3	Naphthalene	0.198U	5.66	0.198	ug/Kg
76-01-7	Pentachloroethane	0.925U	5.66	0.925	ug/Kg
107-12-0	Propionitrile	2.87U	5.66	2.87	ug/Kg
100-42-5	Styrene	0.466U	5.66	0.466	ug/Kg
127-18-4	Tetrachloroethene	0.231U	5.66	0.231	ug/Kg
108-88-3	**Toluene**	**3.72J**	**5.66**	**0.299**	**ug/Kg**
79-01-6	Trichloroethene	0.197U	5.66	0.197	ug/Kg
75-69-4	Trichlorofluoromethane	0.231U	5.66	0.231	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.226U	5.66	0.226	ug/Kg
108-05-4	Vinyl acetate	0.250U	5.66	0.250	ug/Kg
75-01-4	Vinyl chloride	0.283U	5.66	0.283	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.146U	5.66	0.146	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.369U	5.66	0.369	ug/Kg
136777-61-2	**m,p-Xylene**	**0.572J**	**5.66**	**0.402**	**ug/Kg**
104-51-8	n-Butylbenzene	0.161U	5.66	0.161	ug/Kg
110-54-3	**n-Hexane**	**2.42J**	**5.66**	**0.364**	**ug/Kg**
103-65-1	n-Propylbenzene	0.124U	5.66	0.124	ug/Kg
95-47-6	**o-Xylene**	**1.25J**	**5.66**	**0.163**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.122U	5.66	0.122	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.270U	5.66	0.270	ug/Kg
98-06-6	tert-Butylbenzene	0.156U	5.66	0.156	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.361U	5.66	0.361	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.538U	5.66	0.538	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.586U	5.66	0.586	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	40.5	39.7	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	40.5	41	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	40.5	40.9	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	40.5	43.9	ug/Kg	109	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 02:34	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:31	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.6U	456	15.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.3U	456	15.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.3U	456	17.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.4U	456	14.4	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.8U	456	30.8	ug/Kg
88-06-2	2,4,6-Trichlorophenol	109U	456	109	ug/Kg
120-83-2	2,4-Dichlorophenol	48.9U	456	48.9	ug/Kg
105-67-9	2,4-Dimethylphenol	322U	456	322	ug/Kg
51-28-5	2,4-Dinitrophenol	210U	456	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.6U	456	27.6	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7U	456	36.7	ug/Kg
91-58-7	2-Chloronaphthalene	14.6U	456	14.6	ug/Kg
95-57-8	2-Chlorophenol	16.0U	456	16.0	ug/Kg
91-57-6	2-Methylnaphthalene	12.4U	456	12.4	ug/Kg
88-74-4	2-Nitroaniline	33.1U	2280	33.1	ug/Kg
88-75-5	2-Nitrophenol	33.8U	456	33.8	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	422U	911	422	ug/Kg
99-09-2	3-Nitroaniline	30.4U	2280	30.4	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	207U	2280	207	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.5U	456	25.5	ug/Kg
59-50-7	4-Chloro-3-methylphenol	43.5U	456	43.5	ug/Kg
106-47-8	4-Chloroaniline	30.6U	456	30.6	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.8U	456	25.8	ug/Kg
100-01-6	4-Nitroaniline	225U	2280	225	ug/Kg
100-02-7	4-Nitrophenol	129U	2280	129	ug/Kg
83-32-9	Acenaphthene	18.1U	456	18.1	ug/Kg
208-96-8	Acenaphthylene	18.1U	456	18.1	ug/Kg
120-12-7	Anthracene	15.7U	456	15.7	ug/Kg
92-87-5	Benzidine	2280U	2280	2280	ug/Kg
56-55-3	Benzo(a)anthracene	35.6U	456	35.6	ug/Kg
50-32-8	Benzo(a)pyrene	17.0U	456	17.0	ug/Kg
205-99-2	Benzo(b)fluoranthene	42.0U	456	42.0	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.5U	456	14.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.5U	456	18.5	ug/Kg
65-85-0	Benzoic acid	93.9U	2280	93.9	ug/Kg
100-51-6	Benzyl alcohol	62.3U	456	62.3	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.6U	456	35.6	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	33.5U	456	33.5	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.4U	456	28.4	ug/Kg
117-81-7	**Bis(2-Ethylhexyl)phthalate**	**110J**	**456**	**27.1**	**ug/Kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:31	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.19U	456	8.19	ug/Kg
218-01-9	Chrysene	20.0U	456	20.0	ug/Kg
84-74-2	Di-n-butyl phthalate	18.1U	456	18.1	ug/Kg
117-84-0	Di-n-octyl phthalate	6.13U	456	6.13	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.9U	456	15.9	ug/Kg
132-64-9	Dibenzofuran	14.8U	456	14.8	ug/Kg
84-66-2	Diethyl phthalate	28.0U	456	28.0	ug/Kg
131-11-3	Dimethyl phthalate	19.5U	456	19.5	ug/Kg
206-44-0	Fluoranthene	9.00U	456	9.00	ug/Kg
86-73-7	Fluorene	17.8U	456	17.8	ug/Kg
118-74-1	Hexachlorobenzene	26.4U	456	26.4	ug/Kg
87-68-3	Hexachlorobutadiene	27.6U	456	27.6	ug/Kg
77-47-4	Hexachlorocyclopentadiene	166U	456	166	ug/Kg
67-72-1	Hexachloroethane	21.9U	456	21.9	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42.7U	456	42.7	ug/Kg
78-59-1	Isophorone	16.0U	456	16.0	ug/Kg
91-20-3	Naphthalene	18.2U	456	18.2	ug/Kg
98-95-3	Nitrobenzene	25.4U	456	25.4	ug/Kg
87-86-5	Pentachlorophenol	174U	2280	174	ug/Kg
85-01-8	Phenanthrene	14.6U	456	14.6	ug/Kg
108-95-2	Phenol	27.3U	456	27.3	ug/Kg
129-00-0	Pyrene	21.1U	456	21.1	ug/Kg
1319-77-3MP	m,p-Cresol	64.3U	456	64.3	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.8U	456	20.8	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.5U	456	14.5	ug/Kg
95-48-7	o-Cresol	16.1U	456	16.1	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	1020	ug/Kg	62	41 - 123
321-60-8	2-Fluorobiphenyl	1640	963	ug/Kg	59	46 - 122
1718-51-0	Terphenyl-d14	1640	1100	ug/Kg	67	45 - 135
4165-62-2	Phenol-d5	3290	2140	ug/Kg	65	44 - 124
367-12-4	2-Fluorophenol	3290	2100	ug/Kg	64	45 - 114
118-79-6	2,4,6-Tribromophenol	3290	1920	ug/Kg	58	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 22:01	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1800U	5590	1800	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1350	ug/Kg	81	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 00:01	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	822U	6320	822	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1360	1300	ug/Kg	96	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 22:01	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2670U	18600	2670	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1300	ug/Kg	78	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:28	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0047U	0.016	0.0047	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:09	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**3900**	**22.2**	**1.75**	**mg/kg**
7440-38-2	**Arsenic**	**2.26B**	**4.44**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**35.5**	**1.11**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.17B**	**0.56**	**0.0077**	**mg/kg**
7440-70-2	**Calcium**	**182000**	**83.3**	**2.56**	**mg/kg**
7440-47-3	**Chromium**	**3.92**	**1.11**	**0.032**	**mg/kg**
7440-48-4	**Cobalt**	**1.39**	**1.11**	**0.061**	**mg/kg**
7440-50-8	**Copper**	**4.55**	**1.11**	**0.091**	**mg/kg**
7439-89-6	**Iron**	**3610**	**11.1**	**2.51**	**mg/kg**
7439-92-1	**Lead**	**1.21B**	**1.67**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**20900**	**11.1**	**3.72**	**mg/kg**
7439-96-5	**Manganese**	**159**	**1.67**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**3.11B**	**4.44**	**0.087**	**mg/kg**
7440-09-7	**Potassium**	**1240**	**55.5**	**5.05**	**mg/kg**
7440-22-4	**Silver**	**0.11B**	**1.11**	**0.097**	**mg/kg**
7440-62-2	**Vanadium**	**8.21**	**2.22**	**0.14**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121304	**AOCU-HA22-2-A**	Solid	07/11/2011 09:10	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:09	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**12.3**	**2.22**	**0.92**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 14:55	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.33U	6.66	0.33	mg/kg
7440-43-9	**Cadmium**	**0.37B**	**0.56**	**0.027**	**mg/kg**
7782-49-2	**Selenium**	**0.97B**	**4.44**	**0.53**	**mg/kg**
7440-23-5	**Sodium**	**12700**	**111**	**9.74**	**mg/kg**
7440-28-0	**Thallium**	**0.61B**	**2.22**	**0.28**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	2	07/15/2011 17:03	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**20.5**	**1.40**	**0.073**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**28.5**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/19/2011 23:56	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.244U	5.68	0.244	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.218U	5.68	0.218	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.224U	5.68	0.224	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.194U	5.68	0.194	ug/Kg
75-34-3	1,1-Dichloroethane	0.200U	5.68	0.200	ug/Kg
75-35-4	1,1-Dichloroethene	0.349U	5.68	0.349	ug/Kg
563-58-6	1,1-Dichloropropene	0.225U	5.68	0.225	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.128U	5.68	0.128	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.186U	5.68	0.186	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.165U	5.68	0.165	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.135U	5.68	0.135	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.792U	5.68	0.792	ug/Kg
106-93-4	1,2-Dibromoethane	0.623U	5.68	0.623	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.289U	5.68	0.289	ug/Kg
107-06-2	1,2-Dichloroethane	0.207U	5.68	0.207	ug/Kg
78-87-5	1,2-Dichloropropane	0.140U	5.68	0.140	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.130U	5.68	0.130	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.160U	5.68	0.160	ug/Kg
142-28-9	1,3-Dichloropropane	0.152U	5.68	0.152	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.161U	5.68	0.161	ug/Kg
544-10-5	1-Chlorohexane	0.167U	5.68	0.167	ug/Kg
594-20-7	2,2-Dichloropropane	0.345U	5.68	0.345	ug/Kg
78-93-3	**2-Butanone**	**6.12**	**5.68**	**0.721**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.36U	5.68	1.36	ug/Kg
95-49-8	2-Chlorotoluene	0.197U	5.68	0.197	ug/Kg
591-78-6	2-Hexanone	0.803U	5.68	0.803	ug/Kg
106-43-4	4-Chlorotoluene	0.125U	5.68	0.125	ug/Kg
99-87-6	4-Isopropyltoluene	0.097U	5.68	0.097	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.256U	5.68	0.256	ug/Kg
67-64-1	**Acetone**	**14.3J**	**28.4**	**1.23**	**ug/Kg**
75-05-8	Acetonitrile	1.90U	114	1.90	ug/Kg
107-02-8	Acrolein	2.65U	28.4	2.65	ug/Kg
107-13-1	Acrylonitrile	0.659U	28.4	0.659	ug/Kg
107-05-1	Allyl chloride	0.626U	5.68	0.626	ug/Kg
71-43-2	**Benzene**	**5.24J**	**5.68**	**0.120**	**ug/Kg**
108-86-1	Bromobenzene	0.167U	5.68	0.167	ug/Kg
74-97-5	Bromochloromethane	0.274U	5.68	0.274	ug/Kg
75-27-4	Bromodichloromethane	0.153U	5.68	0.153	ug/Kg
75-25-2	Bromoform	0.243U	5.68	0.243	ug/Kg
74-83-9	Bromomethane	0.725U	5.68	0.725	ug/Kg
75-15-0	Carbon disulfide	0.410U	5.68	0.410	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/19/2011 23:56	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.233U	5.68	0.233	ug/Kg
108-90-7	Chlorobenzene	0.203U	5.68	0.203	ug/Kg
75-00-3	Chloroethane	0.277U	5.68	0.277	ug/Kg
67-66-3	**Chloroform**	**1.14J**	**5.68**	**0.256**	**ug/Kg**
74-87-3	Chloromethane	0.642U	5.68	0.642	ug/Kg
124-48-1	Dibromochloromethane	0.217U	5.68	0.217	ug/Kg
74-95-3	Dibromomethane	0.220U	5.68	0.220	ug/Kg
75-71-8	Dichlorodifluoromethane	0.135U	5.68	0.135	ug/Kg
97-63-2	Ethyl methacrylate	0.490U	5.68	0.490	ug/Kg
100-41-4	Ethylbenzene	0.249U	5.68	0.249	ug/Kg
87-68-3	Hexachlorobutadiene	0.173U	5.68	0.173	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.106U	5.68	0.106	ug/Kg
126-98-7	Methacrylonitrile	0.501U	5.68	0.501	ug/Kg
74-88-4	Methyl iodide	1.40U	5.68	1.40	ug/Kg
80-62-6	Methyl methacrylate	0.908U	5.68	0.908	ug/Kg
75-09-2	Methylene chloride	0.546U	11.4	0.546	ug/Kg
91-20-3	Naphthalene	0.199U	5.68	0.199	ug/Kg
76-01-7	Pentachloroethane	0.928U	5.68	0.928	ug/Kg
107-12-0	Propionitrile	2.89U	5.68	2.89	ug/Kg
100-42-5	Styrene	0.468U	5.68	0.468	ug/Kg
127-18-4	Tetrachloroethene	0.232U	5.68	0.232	ug/Kg
108-88-3	**Toluene**	**3.99J**	**5.68**	**0.300**	**ug/Kg**
79-01-6	Trichloroethene	0.198U	5.68	0.198	ug/Kg
75-69-4	Trichlorofluoromethane	0.232U	5.68	0.232	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.227U	5.68	0.227	ug/Kg
108-05-4	Vinyl acetate	0.251U	5.68	0.251	ug/Kg
75-01-4	Vinyl chloride	0.284U	5.68	0.284	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.147U	5.68	0.147	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.370U	5.68	0.370	ug/Kg
136777-61-2	**m,p-Xylene**	**0.807J**	**5.68**	**0.403**	**ug/Kg**
104-51-8	n-Butylbenzene	0.161U	5.68	0.161	ug/Kg
110-54-3	**n-Hexane**	**3.07J**	**5.68**	**0.366**	**ug/Kg**
103-65-1	n-Propylbenzene	0.125U	5.68	0.125	ug/Kg
95-47-6	**o-Xylene**	**1.28J**	**5.68**	**0.164**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.123U	5.68	0.123	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.272U	5.68	0.272	ug/Kg
98-06-6	tert-Butylbenzene	0.157U	5.68	0.157	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.362U	5.68	0.362	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.540U	5.68	0.540	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.588U	5.68	0.588	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	39	37.8	ug/Kg	97	59 - 148
1868-53-7	Dibromofluoromethane	39	40.1	ug/Kg	103	80 - 121
2037-26-5	Toluene d8	39	38.9	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	39	42.3	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/19/2011 23:56	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:46	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.5U	481	16.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	16.2U	481	16.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.2U	481	18.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	15.1U	481	15.1	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.5U	481	32.5	ug/Kg
88-06-2	2,4,6-Trichlorophenol	115U	481	115	ug/Kg
120-83-2	2,4-Dichlorophenol	51.6U	481	51.6	ug/Kg
105-67-9	2,4-Dimethylphenol	339U	481	339	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	481	221	ug/Kg
121-14-2	2,4-Dinitrotoluene	29.1U	481	29.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7U	481	38.7	ug/Kg
91-58-7	2-Chloronaphthalene	15.4U	481	15.4	ug/Kg
95-57-8	2-Chlorophenol	16.9U	481	16.9	ug/Kg
91-57-6	2-Methylnaphthalene	13.0U	481	13.0	ug/Kg
88-74-4	2-Nitroaniline	35.0U	2400	35.0	ug/Kg
88-75-5	2-Nitrophenol	35.7U	481	35.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	446U	961	446	ug/Kg
99-09-2	3-Nitroaniline	32.0U	2400	32.0	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	218U	2400	218	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.9U	481	26.9	ug/Kg
59-50-7	4-Chloro-3-methylphenol	45.9U	481	45.9	ug/Kg
106-47-8	4-Chloroaniline	32.3U	481	32.3	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.2U	481	27.2	ug/Kg
100-01-6	4-Nitroaniline	237U	2400	237	ug/Kg
100-02-7	4-Nitrophenol	136U	2400	136	ug/Kg
83-32-9	Acenaphthene	19.1U	481	19.1	ug/Kg
208-96-8	Acenaphthylene	19.1U	481	19.1	ug/Kg
120-12-7	Anthracene	16.6U	481	16.6	ug/Kg
92-87-5	Benzidine	2400U	2400	2400	ug/Kg
56-55-3	Benzo(a)anthracene	37.6U	481	37.6	ug/Kg
50-32-8	Benzo(a)pyrene	17.9U	481	17.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	44.3U	481	44.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.3U	481	15.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.5U	481	19.5	ug/Kg
65-85-0	Benzoic acid	99.0U	2400	99.0	ug/Kg
100-51-6	Benzyl alcohol	65.7U	481	65.7	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	37.6U	481	37.6	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	35.4U	481	35.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	30.0U	481	30.0	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	28.5U	481	28.5	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 11:46	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.64U	481	8.64	ug/Kg
218-01-9	Chrysene	21.1U	481	21.1	ug/Kg
84-74-2	Di-n-butyl phthalate	19.1U	481	19.1	ug/Kg
117-84-0	Di-n-octyl phthalate	6.47U	481	6.47	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.7U	481	16.7	ug/Kg
132-64-9	Dibenzofuran	15.6U	481	15.6	ug/Kg
84-66-2	Diethyl phthalate	29.6U	481	29.6	ug/Kg
131-11-3	Dimethyl phthalate	20.5U	481	20.5	ug/Kg
206-44-0	Fluoranthene	9.50U	481	9.50	ug/Kg
86-73-7	Fluorene	18.8U	481	18.8	ug/Kg
118-74-1	Hexachlorobenzene	27.8U	481	27.8	ug/Kg
87-68-3	Hexachlorobutadiene	29.1U	481	29.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	175U	481	175	ug/Kg
67-72-1	Hexachloroethane	23.2U	481	23.2	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45.0U	481	45.0	ug/Kg
78-59-1	Isophorone	16.9U	481	16.9	ug/Kg
91-20-3	Naphthalene	19.2U	481	19.2	ug/Kg
98-95-3	Nitrobenzene	26.8U	481	26.8	ug/Kg
87-86-5	Pentachlorophenol	184U	2400	184	ug/Kg
85-01-8	Phenanthrene	15.4U	481	15.4	ug/Kg
108-95-2	Phenol	28.8U	481	28.8	ug/Kg
129-00-0	Pyrene	22.3U	481	22.3	ug/Kg
1319-77-3MP	m,p-Cresol	67.9U	481	67.9	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	22.0U	481	22.0	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.3U	481	15.3	ug/Kg
95-48-7	o-Cresol	17.0U	481	17.0	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1330	ug/Kg	80	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1280	ug/Kg	77	46 - 122
1718-51-0	Terphenyl-d14	1670	1550	ug/Kg	93	45 - 135
4165-62-2	Phenol-d5	3330	2860	ug/Kg	86	44 - 124
367-12-4	2-Fluorophenol	3330	2790	ug/Kg	84	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2620	ug/Kg	79	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 22:19	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1850U	5730	1850	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1510	ug/Kg	92	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/18/2011 16:41	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	763U	5870	763	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1210	1160	ug/Kg	96	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 22:19	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2730U	19100	2730	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1450	ug/Kg	88	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:19	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.011B**	**0.017**	**0.0050**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 21:29	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**13500**	**23.3**	**1.84**	**mg/kg**
7440-36-0	Antimony	0.34U	6.99	0.34	mg/kg
7440-38-2	**Arsenic**	**3.58B**	**4.66**	**0.26**	**mg/kg**
7440-39-3	**Barium**	**105**	**1.17**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**1.26**	**0.58**	**0.0081**	**mg/kg**
7440-43-9	**Cadmium**	**0.40B**	**0.58**	**0.028**	**mg/kg**
7440-70-2	**Calcium**	**131000**	**87.4**	**2.68**	**mg/kg**
7440-47-3	**Chromium**	**17.5**	**1.17**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**7.13**	**1.17**	**0.064**	**mg/kg**
7440-50-8	**Copper**	**14.3**	**1.17**	**0.096**	**mg/kg**
7439-89-6	**Iron**	**17700**	**11.7**	**2.64**	**mg/kg**
7439-92-1	**Lead**	**13.2**	**1.75**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**15900**	**11.7**	**3.90**	**mg/kg**
7439-96-5	**Manganese**	**315**	**1.75**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**17.5**	**4.66**	**0.091**	**mg/kg**
7440-09-7	**Potassium**	**3900**	**58.3**	**5.30**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121305	**AOCU-HA24-1**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 21:29	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.56U	4.66	0.56	mg/kg
7440-22-4	Silver	0.10U	1.17	0.10	mg/kg
7440-28-0	Thallium	0.29U	2.33	0.29	mg/kg
7440-62-2	**Vanadium**	**31.4**	**2.33**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**59.0**	**2.33**	**0.96**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 13:39	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**21300**	**117**	**10.2**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	10	07/15/2011 17:18	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**43.2**	**7.28**	**0.379**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**31.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 00:22	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	54.2	5.53	0.238	ug/Kg
71-55-6	1,1,1-Trichloroethane	59.4	5.53	0.212	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	65.5	5.53	0.218	ug/Kg
79-00-5	1,1,2-Trichloroethane	56.7	5.53	0.189	ug/Kg
75-34-3	1,1-Dichloroethane	58.4	5.53	0.194	ug/Kg
75-35-4	1,1-Dichloroethene	59.7	5.53	0.339	ug/Kg
563-58-6	1,1-Dichloropropene	59.0	5.53	0.219	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	39.3	5.53	0.125	ug/Kg
96-18-4	1,2,3-Trichloropropane	82.7	5.53	0.181	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	40.3	5.53	0.160	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	50.8	5.53	0.131	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	70.3	5.53	0.770	ug/Kg
106-93-4	1,2-Dibromoethane	58.3	5.53	0.606	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.4	5.53	0.281	ug/Kg
107-06-2	1,2-Dichloroethane	56.5	5.53	0.201	ug/Kg
78-87-5	1,2-Dichloropropane	60.3	5.53	0.136	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	47.6	5.53	0.126	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.1	5.53	0.156	ug/Kg
142-28-9	1,3-Dichloropropane	57.7	5.53	0.148	ug/Kg
106-46-7	1,4-Dichlorobenzene	50.1	5.53	0.157	ug/Kg
544-10-5	1-Chlorohexane	52.0	5.53	0.162	ug/Kg
594-20-7	2,2-Dichloropropane	60.0	5.53	0.336	ug/Kg
78-93-3	2-Butanone	65.4	5.53	0.702	ug/Kg
110-75-8	2-Chloroethylvinyl ether	60.6	5.53	1.33	ug/Kg
95-49-8	2-Chlorotoluene	51.0	5.53	0.191	ug/Kg
591-78-6	2-Hexanone	53.7	5.53	0.781	ug/Kg
106-43-4	4-Chlorotoluene	51.3	5.53	0.122	ug/Kg
99-87-6	4-Isopropyltoluene	45.6	5.53	0.094	ug/Kg
108-10-1	4-Methyl-2-pentanone	67.9	5.53	0.249	ug/Kg
67-64-1	Acetone	60.4	27.6	1.19	ug/Kg
75-05-8	Acetonitrile	310	111	1.85	ug/Kg
107-02-8	Acrolein	240	27.6	2.57	ug/Kg
107-13-1	Acrylonitrile	285	27.6	0.641	ug/Kg
107-05-1	Allyl chloride	58.3	5.53	0.609	ug/Kg
71-43-2	Benzene	59.9	5.53	0.117	ug/Kg
108-86-1	Bromobenzene	52.1	5.53	0.162	ug/Kg
74-97-5	Bromochloromethane	56.4	5.53	0.266	ug/Kg
75-27-4	Bromodichloromethane	57.7	5.53	0.149	ug/Kg
75-25-2	Bromoform	61.5	5.53	0.236	ug/Kg
74-83-9	Bromomethane	61.2	5.53	0.705	ug/Kg
75-15-0	Carbon disulfide	57.4	5.53	0.399	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 00:22	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	60.7	5.53	0.227	ug/Kg
108-90-7	Chlorobenzene	52.1	5.53	0.198	ug/Kg
75-00-3	Chloroethane	34.1	5.53	0.270	ug/Kg
67-66-3	Chloroform	57.8	5.53	0.249	ug/Kg
74-87-3	Chloromethane	61.2	5.53	0.624	ug/Kg
124-48-1	Dibromochloromethane	55.2	5.53	0.211	ug/Kg
74-95-3	Dibromomethane	58.1	5.53	0.214	ug/Kg
75-71-8	Dichlorodifluoromethane	62.8	5.53	0.131	ug/Kg
97-63-2	Ethyl methacrylate	54.9	5.53	0.476	ug/Kg
100-41-4	Ethylbenzene	53.5	5.53	0.242	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	5.53	0.168	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	50.2	5.53	0.103	ug/Kg
126-98-7	Methacrylonitrile	64.7	5.53	0.487	ug/Kg
74-88-4	Methyl iodide	58.1	5.53	1.36	ug/Kg
80-62-6	Methyl methacrylate	63.1	5.53	0.883	ug/Kg
75-09-2	Methylene chloride	45.7	11.1	0.532	ug/Kg
91-20-3	Naphthalene	49.8	5.53	0.193	ug/Kg
76-01-7	Pentachloroethane	498	5.53	0.903	ug/Kg
107-12-0	Propionitrile	345	5.53	2.81	ug/Kg
100-42-5	Styrene	52.1	5.53	0.455	ug/Kg
127-18-4	Tetrachloroethene	59.9	5.53	0.225	ug/Kg
108-88-3	Toluene	55.5	5.53	0.292	ug/Kg
79-01-6	Trichloroethene	59.4	5.53	0.192	ug/Kg
75-69-4	Trichlorofluoromethane	60.9	5.53	0.225	ug/Kg
76-13-1	Trichlorotrifluoroethane	61.2	5.53	0.221	ug/Kg
108-05-4	Vinyl acetate	53.9	5.53	0.244	ug/Kg
75-01-4	Vinyl chloride	62.3	5.53	0.276	ug/Kg
156-59-2	cis-1,2-Dichloroethene	54.8	5.53	0.143	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	58.3	5.53	0.360	ug/Kg
136777-61-2	m,p-Xylene	106	5.53	0.392	ug/Kg
104-51-8	n-Butylbenzene	41.7	5.53	0.157	ug/Kg
110-54-3	n-Hexane	54.6	5.53	0.356	ug/Kg
103-65-1	n-Propylbenzene	50.2	5.53	0.122	ug/Kg
95-47-6	o-Xylene	51.4	5.53	0.159	ug/Kg
135-98-8	sec-Butylbenzene	46.0	5.53	0.119	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	54.3	5.53	0.264	ug/Kg
98-06-6	tert-Butylbenzene	48.6	5.53	0.152	ug/Kg
156-60-5	trans-1,2-Dichloroethene	59.0	5.53	0.353	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	55.9	5.53	0.525	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	147	5.53	0.572	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	37.9	36.2	ug/Kg	95	59 - 148
1868-53-7	Dibromofluoromethane	37.9	39.9	ug/Kg	105	80 - 121
2037-26-5	Toluene d8	37.9	35.3	ug/Kg	93	71 - 130
17060-07-0	1,2-Dichloroethane-d4	37.9	45.3	ug/Kg	119	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**3220**	**479**	**16.4**	**ug/Kg**
95-50-1	1,2-Dichlorobenzene	16.1U	479	16.1	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.1U	479	18.1	ug/Kg
106-46-7	**1,4-Dichlorobenzene**	**3200**	**479**	**15.1**	**ug/Kg**
95-95-4	2,4,5-Trichlorophenol	32.4U	479	32.4	ug/Kg
88-06-2	2,4,6-Trichlorophenol	114U	479	114	ug/Kg
120-83-2	2,4-Dichlorophenol	51.4U	479	51.4	ug/Kg
105-67-9	2,4-Dimethylphenol	338U	479	338	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	479	221	ug/Kg
121-14-2	**2,4-Dinitrotoluene**	**3680**	**479**	**29.0**	**ug/Kg**
606-20-2	2,6-Dinitrotoluene	38.6U	479	38.6	ug/Kg
91-58-7	2-Chloronaphthalene	15.4U	479	15.4	ug/Kg
95-57-8	**2-Chlorophenol**	**2770**	**479**	**16.8**	**ug/Kg**
91-57-6	2-Methylnaphthalene	13.0U	479	13.0	ug/Kg
88-74-4	2-Nitroaniline	34.8U	2400	34.8	ug/Kg
88-75-5	2-Nitrophenol	35.6U	479	35.6	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	444U	958	444	ug/Kg
99-09-2	3-Nitroaniline	31.9U	2400	31.9	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	218U	2400	218	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.9U	479	26.9	ug/Kg
59-50-7	**4-Chloro-3-methylphenol**	**2750**	**479**	**45.7**	**ug/Kg**
106-47-8	4-Chloroaniline	32.2U	479	32.2	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.1U	479	27.1	ug/Kg
100-01-6	4-Nitroaniline	237U	2400	237	ug/Kg
100-02-7	**4-Nitrophenol**	**2460**	**2400**	**135**	**ug/Kg**
83-32-9	**Acenaphthene**	**3340**	**479**	**19.0**	**ug/Kg**
208-96-8	Acenaphthylene	19.0U	479	19.0	ug/Kg
120-12-7	Anthracene	16.5U	479	16.5	ug/Kg
92-87-5	Benzidine	2400U	2400	2400	ug/Kg
56-55-3	Benzo(a)anthracene	37.5U	479	37.5	ug/Kg
50-32-8	Benzo(a)pyrene	17.9U	479	17.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	44.1U	479	44.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.2U	479	15.2	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.5U	479	19.5	ug/Kg
65-85-0	Benzoic acid	98.7U	2400	98.7	ug/Kg
100-51-6	Benzyl alcohol	65.5U	479	65.5	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	37.5U	479	37.5	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	35.3U	479	35.3	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.9U	479	29.9	ug/Kg
117-81-7	**Bis(2-Ethylhexyl)phthalate**	**120J**	**479**	**28.5**	**ug/Kg**
85-68-7	Butyl benzyl phthalate	8.61U	479	8.61	ug/Kg
218-01-9	Chrysene	21.0U	479	21.0	ug/Kg
84-74-2	Di-n-butyl phthalate	19.0U	479	19.0	ug/Kg
117-84-0	Di-n-octyl phthalate	6.45U	479	6.45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.7U	479	16.7	ug/Kg
132-64-9	Dibenzofuran	15.5U	479	15.5	ug/Kg
84-66-2	Diethyl phthalate	29.5U	479	29.5	ug/Kg
131-11-3	Dimethyl phthalate	20.5U	479	20.5	ug/Kg
206-44-0	Fluoranthene	9.46U	479	9.46	ug/Kg
86-73-7	Fluorene	18.7U	479	18.7	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	27.7U	479	27.7	ug/Kg
87-68-3	Hexachlorobutadiene	29.0U	479	29.0	ug/Kg
77-47-4	Hexachlorocyclopentadiene	174U	479	174	ug/Kg
67-72-1	Hexachloroethane	23.1U	479	23.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44.9U	479	44.9	ug/Kg
78-59-1	Isophorone	16.8U	479	16.8	ug/Kg
91-20-3	Naphthalene	19.2U	479	19.2	ug/Kg
98-95-3	Nitrobenzene	26.7U	479	26.7	ug/Kg
87-86-5	**Pentachlorophenol**	**2370J**	**2400**	**183**	**ug/Kg**
85-01-8	Phenanthrene	15.4U	479	15.4	ug/Kg
108-95-2	**Phenol**	**2670**	**479**	**28.7**	**ug/Kg**
129-00-0	**Pyrene**	**3980**	**479**	**22.2**	**ug/Kg**
1319-77-3MP	m,p-Cresol	67.6U	479	67.6	ug/Kg
621-64-7	**n-Nitrosodi-n-propylamine**	**3520**	**479**	**21.9**	**ug/Kg**
86-30-6	n-Nitrosodiphenylamine	15.2U	479	15.2	ug/Kg
95-48-7	o-Cresol	17.0U	479	17.0	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1270	ug/Kg	76	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1260	ug/Kg	76	46 - 122
1718-51-0	Terphenyl-d14	1660	1460	ug/Kg	88	45 - 135
4165-62-2	Phenol-d5	3320	2810	ug/Kg	85	44 - 124
367-12-4	2-Fluorophenol	3320	2750	ug/Kg	83	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2750	ug/Kg	83	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 22:37	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**44000**	**5810**	**1870**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1410	ug/Kg	85	67 - 120

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/18/2011 17:05	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**25600**	**5770**	**750**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1190	1210	ug/Kg	102	47 - 164

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 23:12	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**69800**	**19200**	**2750**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1650	1360	ug/Kg	82	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:20	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.43**	**0.017**	**0.0050**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 21:35	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**18600**	**23.3**	**1.84**	**mg/kg**
7440-36-0	**Antimony**	**6.37B**	**6.99**	**0.34**	**mg/kg**
7440-38-2	**Arsenic**	**35.2**	**4.66**	**0.26**	**mg/kg**
7440-39-3	**Barium**	**135**	**1.17**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**30.6**	**0.58**	**0.0081**	**mg/kg**
7440-43-9	**Cadmium**	**27.9**	**0.58**	**0.028**	**mg/kg**
7440-70-2	**Calcium**	**128000**	**87.4**	**2.68**	**mg/kg**
7440-47-3	**Chromium**	**48.5**	**1.17**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**33.8**	**1.17**	**0.064**	**mg/kg**
7440-50-8	**Copper**	**42.3**	**1.17**	**0.096**	**mg/kg**
7439-89-6	**Iron**	**20000**	**11.7**	**2.64**	**mg/kg**
7439-92-1	**Lead**	**40.1**	**1.75**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**17200**	**11.7**	**3.90**	**mg/kg**
7439-96-5	**Manganese**	**343**	**1.75**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**45.3**	**4.66**	**0.091**	**mg/kg**
7440-09-7	**Potassium**	**5750**	**58.3**	**5.30**	**mg/kg**
7782-49-2	**Selenium**	**29.0**	**4.66**	**0.56**	**mg/kg**
7440-22-4	**Silver**	**28.6**	**1.17**	**0.10**	**mg/kg**
7440-28-0	**Thallium**	**25.2**	**2.33**	**0.29**	**mg/kg**
7440-62-2	**Vanadium**	**63.0**	**2.33**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**93.2**	**2.33**	**0.96**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121306	**AOCU-HA24-1-MS**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 13:47	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**22500**	**117**	**10.2**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	10	07/15/2011 17:20	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**117**	**7.28**	**0.379**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**31.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 00:49	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	54.0	5.49	0.236	ug/Kg
71-55-6	1,1,1-Trichloroethane	58.1	5.49	0.211	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	66.1	5.49	0.216	ug/Kg
79-00-5	1,1,2-Trichloroethane	58.4	5.49	0.188	ug/Kg
75-34-3	1,1-Dichloroethane	56.9	5.49	0.193	ug/Kg
75-35-4	1,1-Dichloroethene	55.8	5.49	0.337	ug/Kg
563-58-6	1,1-Dichloropropene	57.7	5.49	0.217	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	42.8	5.49	0.124	ug/Kg
96-18-4	1,2,3-Trichloropropane	80.1	5.49	0.180	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	43.3	5.49	0.159	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	51.0	5.49	0.131	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	70.2	5.49	0.766	ug/Kg
106-93-4	1,2-Dibromoethane	57.7	5.49	0.602	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.8	5.49	0.279	ug/Kg
107-06-2	1,2-Dichloroethane	56.2	5.49	0.200	ug/Kg
78-87-5	1,2-Dichloropropane	59.7	5.49	0.135	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	48.1	5.49	0.125	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.4	5.49	0.155	ug/Kg
142-28-9	1,3-Dichloropropane	58.3	5.49	0.147	ug/Kg
106-46-7	1,4-Dichlorobenzene	50.1	5.49	0.156	ug/Kg
544-10-5	1-Chlorohexane	52.9	5.49	0.161	ug/Kg
594-20-7	2,2-Dichloropropane	55.8	5.49	0.334	ug/Kg
78-93-3	2-Butanone	63.5	5.49	0.697	ug/Kg
110-75-8	2-Chloroethylvinyl ether	54.5	5.49	1.32	ug/Kg
95-49-8	2-Chlorotoluene	50.4	5.49	0.190	ug/Kg
591-78-6	2-Hexanone	54.0	5.49	0.777	ug/Kg
106-43-4	4-Chlorotoluene	50.7	5.49	0.121	ug/Kg
99-87-6	4-Isopropyltoluene	46.8	5.49	0.093	ug/Kg
108-10-1	4-Methyl-2-pentanone	68.2	5.49	0.247	ug/Kg
67-64-1	Acetone	53.5	27.5	1.19	ug/Kg
75-05-8	Acetonitrile	322	110	1.83	ug/Kg
107-02-8	Acrolein	232	27.5	2.56	ug/Kg
107-13-1	Acrylonitrile	291	27.5	0.637	ug/Kg
107-05-1	Allyl chloride	53.3	5.49	0.605	ug/Kg
71-43-2	Benzene	58.3	5.49	0.116	ug/Kg
108-86-1	Bromobenzene	51.3	5.49	0.161	ug/Kg
74-97-5	Bromochloromethane	55.1	5.49	0.265	ug/Kg
75-27-4	Bromodichloromethane	57.5	5.49	0.148	ug/Kg
75-25-2	Bromoform	62.3	5.49	0.235	ug/Kg
74-83-9	Bromomethane	56.1	5.49	0.701	ug/Kg
75-15-0	Carbon disulfide	55.6	5.49	0.397	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 00:49	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	59.3	5.49	0.225	ug/Kg
108-90-7	Chlorobenzene	51.8	5.49	0.197	ug/Kg
75-00-3	Chloroethane	30.7	5.49	0.268	ug/Kg
67-66-3	Chloroform	56.5	5.49	0.247	ug/Kg
74-87-3	Chloromethane	58.7	5.49	0.621	ug/Kg
124-48-1	Dibromochloromethane	56.4	5.49	0.210	ug/Kg
74-95-3	Dibromomethane	57.2	5.49	0.213	ug/Kg
75-71-8	Dichlorodifluoromethane	63.2	5.49	0.131	ug/Kg
97-63-2	Ethyl methacrylate	56.1	5.49	0.473	ug/Kg
100-41-4	Ethylbenzene	53.6	5.49	0.241	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	5.49	0.167	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	51.1	5.49	0.102	ug/Kg
126-98-7	Methacrylonitrile	63.6	5.49	0.484	ug/Kg
74-88-4	Methyl iodide	53.3	5.49	1.35	ug/Kg
80-62-6	Methyl methacrylate	64.7	5.49	0.878	ug/Kg
75-09-2	Methylene chloride	44.0	11.0	0.528	ug/Kg
91-20-3	Naphthalene	52.6	5.49	0.192	ug/Kg
76-01-7	Pentachloroethane	405	5.49	0.897	ug/Kg
107-12-0	Propionitrile	352	5.49	2.79	ug/Kg
100-42-5	Styrene	51.7	5.49	0.453	ug/Kg
127-18-4	Tetrachloroethene	65.7	5.49	0.224	ug/Kg
108-88-3	Toluene	56.1	5.49	0.290	ug/Kg
79-01-6	Trichloroethene	58.5	5.49	0.191	ug/Kg
75-69-4	Trichlorofluoromethane	60.7	5.49	0.224	ug/Kg
76-13-1	Trichlorotrifluoroethane	61.5	5.49	0.220	ug/Kg
108-05-4	Vinyl acetate	51.6	5.49	0.243	ug/Kg
75-01-4	Vinyl chloride	59.9	5.49	0.275	ug/Kg
156-59-2	cis-1,2-Dichloroethene	53.0	5.49	0.142	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	56.8	5.49	0.358	ug/Kg
136777-61-2	m,p-Xylene	106	5.49	0.390	ug/Kg
104-51-8	n-Butylbenzene	43.8	5.49	0.156	ug/Kg
110-54-3	n-Hexane	57.7	5.49	0.354	ug/Kg
103-65-1	n-Propylbenzene	50.2	5.49	0.121	ug/Kg
95-47-6	o-Xylene	51.7	5.49	0.158	ug/Kg
135-98-8	sec-Butylbenzene	47.3	5.49	0.119	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	53.7	5.49	0.263	ug/Kg
98-06-6	tert-Butylbenzene	48.8	5.49	0.152	ug/Kg
156-60-5	trans-1,2-Dichloroethene	57.1	5.49	0.350	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	55.8	5.49	0.522	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	138	5.49	0.569	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	37.7	36.7	ug/Kg	97	59 - 148
1868-53-7	Dibromofluoromethane	37.7	39.8	ug/Kg	106	80 - 121
2037-26-5	Toluene d8	37.7	35.8	ug/Kg	95	71 - 130
17060-07-0	1,2-Dichloroethane-d4	37.7	42.3	ug/Kg	112	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:16	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**3470**	**476**	**16.3**	**ug/Kg**
95-50-1	1,2-Dichlorobenzene	16.0U	476	16.0	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.0U	476	18.0	ug/Kg
106-46-7	**1,4-Dichlorobenzene**	**3440**	**476**	**15.0**	**ug/Kg**
95-95-4	2,4,5-Trichlorophenol	32.2U	476	32.2	ug/Kg
88-06-2	2,4,6-Trichlorophenol	113U	476	113	ug/Kg
120-83-2	2,4-Dichlorophenol	51.0U	476	51.0	ug/Kg
105-67-9	2,4-Dimethylphenol	336U	476	336	ug/Kg
51-28-5	2,4-Dinitrophenol	219U	476	219	ug/Kg
121-14-2	**2,4-Dinitrotoluene**	**3890**	**476**	**28.8**	**ug/Kg**
606-20-2	2,6-Dinitrotoluene	38.4U	476	38.4	ug/Kg
91-58-7	2-Chloronaphthalene	15.3U	476	15.3	ug/Kg
95-57-8	**2-Chlorophenol**	**2910**	**476**	**16.7**	**ug/Kg**
91-57-6	2-Methylnaphthalene	12.9U	476	12.9	ug/Kg
88-74-4	2-Nitroaniline	34.6U	2380	34.6	ug/Kg
88-75-5	2-Nitrophenol	35.3U	476	35.3	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	441U	952	441	ug/Kg
99-09-2	3-Nitroaniline	31.7U	2380	31.7	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	216U	2380	216	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.7U	476	26.7	ug/Kg
59-50-7	**4-Chloro-3-methylphenol**	**2930**	**476**	**45.4**	**ug/Kg**
106-47-8	4-Chloroaniline	32.0U	476	32.0	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.0U	476	27.0	ug/Kg
100-01-6	4-Nitroaniline	235U	2380	235	ug/Kg
100-02-7	**4-Nitrophenol**	**2610**	**2380**	**134**	**ug/Kg**
83-32-9	**Acenaphthene**	**3550**	**476**	**18.9**	**ug/Kg**
208-96-8	Acenaphthylene	18.9U	476	18.9	ug/Kg
120-12-7	Anthracene	16.4U	476	16.4	ug/Kg
92-87-5	Benzidine	2380U	2380	2380	ug/Kg
56-55-3	Benzo(a)anthracene	37.2U	476	37.2	ug/Kg
50-32-8	Benzo(a)pyrene	17.7U	476	17.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.8U	476	43.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.1U	476	15.1	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.3U	476	19.3	ug/Kg
65-85-0	Benzoic acid	98.1U	2380	98.1	ug/Kg
100-51-6	Benzyl alcohol	65.0U	476	65.0	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	37.2U	476	37.2	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	35.0U	476	35.0	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.7U	476	29.7	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	28.3U	476	28.3	ug/Kg
85-68-7	Butyl benzyl phthalate	8.55U	476	8.55	ug/Kg
218-01-9	Chrysene	20.9U	476	20.9	ug/Kg
84-74-2	Di-n-butyl phthalate	18.9U	476	18.9	ug/Kg
117-84-0	Di-n-octyl phthalate	6.40U	476	6.40	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.6U	476	16.6	ug/Kg
132-64-9	Dibenzofuran	15.4U	476	15.4	ug/Kg
84-66-2	Diethyl phthalate	29.3U	476	29.3	ug/Kg
131-11-3	Dimethyl phthalate	20.3U	476	20.3	ug/Kg
206-44-0	Fluoranthene	9.40U	476	9.40	ug/Kg
86-73-7	Fluorene	18.6U	476	18.6	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:16	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	27.5U	476	27.5	ug/Kg
87-68-3	Hexachlorobutadiene	28.8U	476	28.8	ug/Kg
77-47-4	Hexachlorocyclopentadiene	173U	476	173	ug/Kg
67-72-1	Hexachloroethane	22.9U	476	22.9	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44.6U	476	44.6	ug/Kg
78-59-1	Isophorone	16.7U	476	16.7	ug/Kg
91-20-3	Naphthalene	19.0U	476	19.0	ug/Kg
98-95-3	Nitrobenzene	26.5U	476	26.5	ug/Kg
87-86-5	**Pentachlorophenol**	**2450**	**2380**	**182**	**ug/Kg**
85-01-8	Phenanthrene	15.3U	476	15.3	ug/Kg
108-95-2	**Phenol**	**2770**	**476**	**28.6**	**ug/Kg**
129-00-0	**Pyrene**	**4210**	**476**	**22.1**	**ug/Kg**
1319-77-3MP	m,p-Cresol	67.2U	476	67.2	ug/Kg
621-64-7	**n-Nitrosodi-n-propylamine**	**3760**	**476**	**21.8**	**ug/Kg**
86-30-6	n-Nitrosodiphenylamine	15.1U	476	15.1	ug/Kg
95-48-7	o-Cresol	16.9U	476	16.9	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1650	1350	ug/Kg	82	41 - 123
321-60-8	2-Fluorobiphenyl	1650	1320	ug/Kg	80	46 - 122
1718-51-0	Terphenyl-d14	1650	1520	ug/Kg	92	45 - 135
4165-62-2	Phenol-d5	3300	2960	ug/Kg	90	44 - 124
367-12-4	2-Fluorophenol	3300	2850	ug/Kg	86	45 - 114
118-79-6	2,4,6-Tribromophenol	3300	2810	ug/Kg	85	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/13/2011 22:55	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**44200**	**5830**	**1880**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1420	ug/Kg	85	67 - 120

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/18/2011 17:29	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**26500**	**5810**	**755**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1200	1200	ug/Kg	100	47 - 164

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/13/2011 23:31	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**73500**	**19300**	**2770**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1460	ug/Kg	88	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:22	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.45**	**0.017**	**0.0050**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 21:42	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**19100**	**23.3**	**1.84**	**mg/kg**
7440-36-0	**Antimony**	**5.67B**	**6.99**	**0.34**	**mg/kg**
7440-38-2	**Arsenic**	**34.7**	**4.66**	**0.26**	**mg/kg**
7440-39-3	**Barium**	**132**	**1.17**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**29.8**	**0.58**	**0.0081**	**mg/kg**
7440-43-9	**Cadmium**	**27.6**	**0.58**	**0.028**	**mg/kg**
7440-70-2	**Calcium**	**130000**	**87.4**	**2.68**	**mg/kg**
7440-47-3	**Chromium**	**47.3**	**1.17**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**33.2**	**1.17**	**0.064**	**mg/kg**
7440-50-8	**Copper**	**41.0**	**1.17**	**0.096**	**mg/kg**
7439-89-6	**Iron**	**20400**	**11.7**	**2.64**	**mg/kg**
7439-92-1	**Lead**	**40.0**	**1.75**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**17800**	**11.7**	**3.90**	**mg/kg**
7439-96-5	**Manganese**	**331**	**1.75**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**44.6**	**4.66**	**0.091**	**mg/kg**
7440-09-7	**Potassium**	**5970**	**58.3**	**5.30**	**mg/kg**
7782-49-2	**Selenium**	**29.6**	**4.66**	**0.56**	**mg/kg**
7440-22-4	**Silver**	**28.0**	**1.17**	**0.10**	**mg/kg**
7440-28-0	**Thallium**	**24.8**	**2.33**	**0.29**	**mg/kg**
7440-62-2	**Vanadium**	**60.9**	**2.33**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**92.4**	**2.33**	**0.96**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121307	**AOCU-HA24-1-MSD**	Solid	07/11/2011 09:45	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 13:54	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**22000**	**117**	**10.2**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	10	07/15/2011 17:21	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**117**	**7.28**	**0.379**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**31.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:01	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.300U	6.97	0.300	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.268U	6.97	0.268	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.275U	6.97	0.275	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.238U	6.97	0.238	ug/Kg
75-34-3	1,1-Dichloroethane	0.245U	6.97	0.245	ug/Kg
75-35-4	1,1-Dichloroethene	0.428U	6.97	0.428	ug/Kg
563-58-6	1,1-Dichloropropene	0.276U	6.97	0.276	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.157U	6.97	0.157	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.229U	6.97	0.229	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.202U	6.97	0.202	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.166U	6.97	0.166	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.971U	6.97	0.971	ug/Kg
106-93-4	1,2-Dibromoethane	0.764U	6.97	0.764	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.354U	6.97	0.354	ug/Kg
107-06-2	1,2-Dichloroethane	0.254U	6.97	0.254	ug/Kg
78-87-5	1,2-Dichloropropane	0.171U	6.97	0.171	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.159U	6.97	0.159	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.196U	6.97	0.196	ug/Kg
142-28-9	1,3-Dichloropropane	0.187U	6.97	0.187	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.198U	6.97	0.198	ug/Kg
544-10-5	1-Chlorohexane	0.205U	6.97	0.205	ug/Kg
594-20-7	2,2-Dichloropropane	0.424U	6.97	0.424	ug/Kg
78-93-3	**2-Butanone**	**6.17J**	**6.97**	**0.885**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.67U	6.97	1.67	ug/Kg
95-49-8	2-Chlorotoluene	0.241U	6.97	0.241	ug/Kg
591-78-6	2-Hexanone	0.985U	6.97	0.985	ug/Kg
106-43-4	4-Chlorotoluene	0.153U	6.97	0.153	ug/Kg
99-87-6	4-Isopropyltoluene	0.118U	6.97	0.118	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.314U	6.97	0.314	ug/Kg
67-64-1	**Acetone**	**19.7J**	**34.8**	**1.51**	**ug/Kg**
75-05-8	Acetonitrile	2.33U	139	2.33	ug/Kg
107-02-8	Acrolein	3.25U	34.8	3.25	ug/Kg
107-13-1	Acrylonitrile	0.808U	34.8	0.808	ug/Kg
107-05-1	Allyl chloride	0.768U	6.97	0.768	ug/Kg
71-43-2	**Benzene**	**6.24J**	**6.97**	**0.148**	**ug/Kg**
108-86-1	Bromobenzene	0.205U	6.97	0.205	ug/Kg
74-97-5	Bromochloromethane	0.336U	6.97	0.336	ug/Kg
75-27-4	Bromodichloromethane	0.188U	6.97	0.188	ug/Kg
75-25-2	Bromoform	0.298U	6.97	0.298	ug/Kg
74-83-9	Bromomethane	0.889U	6.97	0.889	ug/Kg
75-15-0	Carbon disulfide	0.503U	6.97	0.503	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:01	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.286U	6.97	0.286	ug/Kg
108-90-7	Chlorobenzene	0.249U	6.97	0.249	ug/Kg
75-00-3	Chloroethane	0.340U	6.97	0.340	ug/Kg
67-66-3	**Chloroform**	**0.958J**	**6.97**	**0.314**	**ug/Kg**
74-87-3	Chloromethane	0.787U	6.97	0.787	ug/Kg
124-48-1	Dibromochloromethane	0.266U	6.97	0.266	ug/Kg
74-95-3	Dibromomethane	0.270U	6.97	0.270	ug/Kg
75-71-8	Dichlorodifluoromethane	0.166U	6.97	0.166	ug/Kg
97-63-2	Ethyl methacrylate	0.601U	6.97	0.601	ug/Kg
100-41-4	Ethylbenzene	0.305U	6.97	0.305	ug/Kg
87-68-3	Hexachlorobutadiene	0.212U	6.97	0.212	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.130U	6.97	0.130	ug/Kg
126-98-7	Methacrylonitrile	0.615U	6.97	0.615	ug/Kg
74-88-4	Methyl iodide	1.71U	6.97	1.71	ug/Kg
80-62-6	Methyl methacrylate	1.11U	6.97	1.11	ug/Kg
75-09-2	Methylene chloride	0.670U	13.9	0.670	ug/Kg
91-20-3	Naphthalene	0.244U	6.97	0.244	ug/Kg
76-01-7	Pentachloroethane	1.14U	6.97	1.14	ug/Kg
107-12-0	Propionitrile	3.54U	6.97	3.54	ug/Kg
100-42-5	Styrene	0.574U	6.97	0.574	ug/Kg
127-18-4	Tetrachloroethene	0.284U	6.97	0.284	ug/Kg
108-88-3	**Toluene**	**4.92J**	**6.97**	**0.368**	**ug/Kg**
79-01-6	Trichloroethene	0.242U	6.97	0.242	ug/Kg
75-69-4	Trichlorofluoromethane	0.284U	6.97	0.284	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.279U	6.97	0.279	ug/Kg
108-05-4	Vinyl acetate	0.308U	6.97	0.308	ug/Kg
75-01-4	Vinyl chloride	0.348U	6.97	0.348	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.180U	6.97	0.180	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.454U	6.97	0.454	ug/Kg
136777-61-2	**m,p-Xylene**	**0.655J**	**6.97**	**0.495**	**ug/Kg**
104-51-8	n-Butylbenzene	0.198U	6.97	0.198	ug/Kg
110-54-3	**n-Hexane**	**2.63J**	**6.97**	**0.449**	**ug/Kg**
103-65-1	n-Propylbenzene	0.153U	6.97	0.153	ug/Kg
95-47-6	**o-Xylene**	**1.55J**	**6.97**	**0.201**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.151U	6.97	0.151	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.333U	6.97	0.333	ug/Kg
98-06-6	tert-Butylbenzene	0.192U	6.97	0.192	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.445U	6.97	0.445	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.662U	6.97	0.662	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.722U	6.97	0.722	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	49.6	48.4	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	49.6	49.3	ug/Kg	99	80 - 121
2037-26-5	Toluene d8	49.6	49.8	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	49.6	52.9	ug/Kg	107	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:01	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:31	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.9U	464	15.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.6U	464	15.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.6U	464	17.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.6U	464	14.6	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.3U	464	31.3	ug/Kg
88-06-2	2,4,6-Trichlorophenol	111U	464	111	ug/Kg
120-83-2	2,4-Dichlorophenol	49.7U	464	49.7	ug/Kg
105-67-9	2,4-Dimethylphenol	327U	464	327	ug/Kg
51-28-5	2,4-Dinitrophenol	214U	464	214	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.1U	464	28.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4U	464	37.4	ug/Kg
91-58-7	2-Chloronaphthalene	14.9U	464	14.9	ug/Kg
95-57-8	2-Chlorophenol	16.3U	464	16.3	ug/Kg
91-57-6	2-Methylnaphthalene	12.6U	464	12.6	ug/Kg
88-74-4	2-Nitroaniline	33.7U	2320	33.7	ug/Kg
88-75-5	2-Nitrophenol	34.4U	464	34.4	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	430U	927	430	ug/Kg
99-09-2	3-Nitroaniline	30.9U	2320	30.9	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	211U	2320	211	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.0U	464	26.0	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.2U	464	44.2	ug/Kg
106-47-8	4-Chloroaniline	31.2U	464	31.2	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.3U	464	26.3	ug/Kg
100-01-6	4-Nitroaniline	229U	2320	229	ug/Kg
100-02-7	4-Nitrophenol	131U	2320	131	ug/Kg
83-32-9	Acenaphthene	18.4U	464	18.4	ug/Kg
208-96-8	Acenaphthylene	18.4U	464	18.4	ug/Kg
120-12-7	Anthracene	16.0U	464	16.0	ug/Kg
92-87-5	Benzidine	2320U	2320	2320	ug/Kg
56-55-3	Benzo(a)anthracene	36.2U	464	36.2	ug/Kg
50-32-8	Benzo(a)pyrene	17.3U	464	17.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	42.7U	464	42.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.7U	464	14.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.8U	464	18.8	ug/Kg
65-85-0	Benzoic acid	95.5U	2320	95.5	ug/Kg
100-51-6	Benzyl alcohol	63.4U	464	63.4	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.2U	464	36.2	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.1U	464	34.1	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.9U	464	28.9	ug/Kg
117-81-7	**Bis(2-Ethylhexyl)phthalate**	**117J**	**464**	**27.5**	**ug/Kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:31	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.33U	464	8.33	ug/Kg
218-01-9	Chrysene	20.4U	464	20.4	ug/Kg
84-74-2	Di-n-butyl phthalate	18.4U	464	18.4	ug/Kg
117-84-0	Di-n-octyl phthalate	6.24U	464	6.24	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.2U	464	16.2	ug/Kg
132-64-9	Dibenzofuran	15.0U	464	15.0	ug/Kg
84-66-2	Diethyl phthalate	28.5U	464	28.5	ug/Kg
131-11-3	Dimethyl phthalate	19.8U	464	19.8	ug/Kg
206-44-0	Fluoranthene	9.16U	464	9.16	ug/Kg
86-73-7	Fluorene	18.1U	464	18.1	ug/Kg
118-74-1	Hexachlorobenzene	26.8U	464	26.8	ug/Kg
87-68-3	Hexachlorobutadiene	28.1U	464	28.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	169U	464	169	ug/Kg
67-72-1	Hexachloroethane	22.3U	464	22.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.4U	464	43.4	ug/Kg
78-59-1	Isophorone	16.3U	464	16.3	ug/Kg
91-20-3	Naphthalene	18.5U	464	18.5	ug/Kg
98-95-3	Nitrobenzene	25.8U	464	25.8	ug/Kg
87-86-5	Pentachlorophenol	177U	2320	177	ug/Kg
85-01-8	Phenanthrene	14.9U	464	14.9	ug/Kg
108-95-2	Phenol	27.8U	464	27.8	ug/Kg
129-00-0	Pyrene	21.5U	464	21.5	ug/Kg
1319-77-3MP	m,p-Cresol	65.5U	464	65.5	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.2U	464	21.2	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.7U	464	14.7	ug/Kg
95-48-7	o-Cresol	16.4U	464	16.4	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1350	ug/Kg	81	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1340	ug/Kg	80	46 - 122
1718-51-0	Terphenyl-d14	1670	1600	ug/Kg	96	45 - 135
4165-62-2	Phenol-d5	3330	3100	ug/Kg	93	44 - 124
367-12-4	2-Fluorophenol	3330	2940	ug/Kg	88	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2830	ug/Kg	85	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 16:58	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1800U	5580	1800	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1180	ug/Kg	71	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 00:25	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**972J**	**6380**	**830**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1360	1320	ug/Kg	97	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 16:58	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**4340J**	**18600**	**2660**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1190	ug/Kg	72	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:30	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0077B**	**0.017**	**0.0048**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:16	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**10700**	**22.5**	**1.77**	**mg/kg**
7440-38-2	**Arsenic**	**3.83B**	**4.50**	**0.25**	**mg/kg**
7440-39-3	**Barium**	**87.6**	**1.12**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.93**	**0.56**	**0.0078**	**mg/kg**
7440-70-2	**Calcium**	**145000**	**84.3**	**2.59**	**mg/kg**
7440-47-3	**Chromium**	**14.2**	**1.12**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**5.80**	**1.12**	**0.061**	**mg/kg**
7440-50-8	**Copper**	**11.5**	**1.12**	**0.092**	**mg/kg**
7439-89-6	**Iron**	**14600**	**11.2**	**2.55**	**mg/kg**
7439-92-1	**Lead**	**10.3**	**1.69**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**18700**	**11.2**	**3.76**	**mg/kg**
7439-96-5	**Manganese**	**293**	**1.69**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**14.3**	**4.50**	**0.088**	**mg/kg**
7440-09-7	**Potassium**	**2970**	**56.2**	**5.11**	**mg/kg**
7440-22-4	Silver	0.098U	1.12	0.098	mg/kg
7440-62-2	**Vanadium**	**27.0**	**2.25**	**0.14**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121308	**AOCU-HA26-1.5**	Solid	07/11/2011 10:45	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:16	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**47.8**	**2.25**	**0.93**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 15:01	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.33U	6.74	0.33	mg/kg
7440-43-9	**Cadmium**	**0.42B**	**0.56**	**0.027**	**mg/kg**
7782-49-2	**Selenium**	**0.88B**	**4.50**	**0.54**	**mg/kg**
7440-23-5	**Sodium**	**20800**	**112**	**9.86**	**mg/kg**
7440-28-0	**Thallium**	**1.12B**	**2.25**	**0.28**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	5	07/15/2011 17:08	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**35.6**	**3.51**	**0.183**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**28.8**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:27	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.332U	7.73	0.332	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.297U	7.73	0.297	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.304U	7.73	0.304	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.264U	7.73	0.264	ug/Kg
75-34-3	1,1-Dichloroethane	0.272U	7.73	0.272	ug/Kg
75-35-4	1,1-Dichloroethene	0.475U	7.73	0.475	ug/Kg
563-58-6	1,1-Dichloropropene	0.306U	7.73	0.306	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.175U	7.73	0.175	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.253U	7.73	0.253	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.224U	7.73	0.224	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.184U	7.73	0.184	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	1.08U	7.73	1.08	ug/Kg
106-93-4	1,2-Dibromoethane	0.847U	7.73	0.847	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.393U	7.73	0.393	ug/Kg
107-06-2	1,2-Dichloroethane	0.281U	7.73	0.281	ug/Kg
78-87-5	1,2-Dichloropropane	0.190U	7.73	0.190	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.176U	7.73	0.176	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.218U	7.73	0.218	ug/Kg
142-28-9	1,3-Dichloropropane	0.207U	7.73	0.207	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.219U	7.73	0.219	ug/Kg
544-10-5	1-Chlorohexane	0.227U	7.73	0.227	ug/Kg
594-20-7	2,2-Dichloropropane	0.470U	7.73	0.470	ug/Kg
78-93-3	**2-Butanone**	**21.4**	**7.73**	**0.981**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.85U	7.73	1.85	ug/Kg
95-49-8	2-Chlorotoluene	0.267U	7.73	0.267	ug/Kg
591-78-6	2-Hexanone	1.09U	7.73	1.09	ug/Kg
106-43-4	4-Chlorotoluene	0.170U	7.73	0.170	ug/Kg
99-87-6	4-Isopropyltoluene	0.131U	7.73	0.131	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.348U	7.73	0.348	ug/Kg
67-64-1	**Acetone**	**60.9**	**38.6**	**1.67**	**ug/Kg**
75-05-8	Acetonitrile	2.58U	155	2.58	ug/Kg
107-02-8	Acrolein	3.60U	38.6	3.60	ug/Kg
107-13-1	Acrylonitrile	0.896U	38.6	0.896	ug/Kg
107-05-1	Allyl chloride	0.852U	7.73	0.852	ug/Kg
71-43-2	**Benzene**	**6.42J**	**7.73**	**0.164**	**ug/Kg**
108-86-1	Bromobenzene	0.227U	7.73	0.227	ug/Kg
74-97-5	Bromochloromethane	0.372U	7.73	0.372	ug/Kg
75-27-4	Bromodichloromethane	0.209U	7.73	0.209	ug/Kg
75-25-2	Bromoform	0.331U	7.73	0.331	ug/Kg
74-83-9	Bromomethane	0.986U	7.73	0.986	ug/Kg
75-15-0	Carbon disulfide	0.558U	7.73	0.558	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:27	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.317U	7.73	0.317	ug/Kg
108-90-7	Chlorobenzene	0.277U	7.73	0.277	ug/Kg
75-00-3	Chloroethane	0.377U	7.73	0.377	ug/Kg
67-66-3	**Chloroform**	**1.39J**	**7.73**	**0.348**	**ug/Kg**
74-87-3	Chloromethane	0.873U	7.73	0.873	ug/Kg
124-48-1	Dibromochloromethane	0.295U	7.73	0.295	ug/Kg
74-95-3	Dibromomethane	0.300U	7.73	0.300	ug/Kg
75-71-8	Dichlorodifluoromethane	0.184U	7.73	0.184	ug/Kg
97-63-2	Ethyl methacrylate	0.666U	7.73	0.666	ug/Kg
100-41-4	Ethylbenzene	0.338U	7.73	0.338	ug/Kg
87-68-3	Hexachlorobutadiene	0.235U	7.73	0.235	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.144U	7.73	0.144	ug/Kg
126-98-7	Methacrylonitrile	0.682U	7.73	0.682	ug/Kg
74-88-4	Methyl iodide	1.90U	7.73	1.90	ug/Kg
80-62-6	Methyl methacrylate	1.23U	7.73	1.23	ug/Kg
75-09-2	Methylene chloride	0.743U	15.5	0.743	ug/Kg
91-20-3	Naphthalene	0.270U	7.73	0.270	ug/Kg
76-01-7	Pentachloroethane	1.26U	7.73	1.26	ug/Kg
107-12-0	Propionitrile	3.93U	7.73	3.93	ug/Kg
100-42-5	Styrene	0.637U	7.73	0.637	ug/Kg
127-18-4	Tetrachloroethene	0.315U	7.73	0.315	ug/Kg
108-88-3	**Toluene**	**4.48J**	**7.73**	**0.408**	**ug/Kg**
79-01-6	Trichloroethene	0.269U	7.73	0.269	ug/Kg
75-69-4	Trichlorofluoromethane	0.315U	7.73	0.315	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.309U	7.73	0.309	ug/Kg
108-05-4	Vinyl acetate	0.342U	7.73	0.342	ug/Kg
75-01-4	Vinyl chloride	0.386U	7.73	0.386	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.199U	7.73	0.199	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.504U	7.73	0.504	ug/Kg
136777-61-2	m,p-Xylene	0.549U	7.73	0.549	ug/Kg
104-51-8	n-Butylbenzene	0.219U	7.73	0.219	ug/Kg
110-54-3	**n-Hexane**	**4.93J**	**7.73**	**0.498**	**ug/Kg**
103-65-1	n-Propylbenzene	0.170U	7.73	0.170	ug/Kg
95-47-6	**o-Xylene**	**1.56J**	**7.73**	**0.223**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.167U	7.73	0.167	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.369U	7.73	0.369	ug/Kg
98-06-6	tert-Butylbenzene	0.213U	7.73	0.213	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.493U	7.73	0.493	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.734U	7.73	0.734	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.801U	7.73	0.801	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	48.6	48	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	48.6	49.6	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	48.6	49.1	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	48.6	52	ug/Kg	107	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:27	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:46	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	17.9U	523	17.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.6U	523	17.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.8U	523	19.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	16.5U	523	16.5	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.3U	523	35.3	ug/Kg
88-06-2	2,4,6-Trichlorophenol	125U	523	125	ug/Kg
120-83-2	2,4-Dichlorophenol	56.1U	523	56.1	ug/Kg
105-67-9	2,4-Dimethylphenol	369U	523	369	ug/Kg
51-28-5	2,4-Dinitrophenol	241U	523	241	ug/Kg
121-14-2	2,4-Dinitrotoluene	31.7U	523	31.7	ug/Kg
606-20-2	2,6-Dinitrotoluene	42.1U	523	42.1	ug/Kg
91-58-7	2-Chloronaphthalene	16.8U	523	16.8	ug/Kg
95-57-8	2-Chlorophenol	18.4U	523	18.4	ug/Kg
91-57-6	2-Methylnaphthalene	14.2U	523	14.2	ug/Kg
88-74-4	2-Nitroaniline	38.0U	2610	38.0	ug/Kg
88-75-5	2-Nitrophenol	38.8U	523	38.8	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	485U	1050	485	ug/Kg
99-09-2	3-Nitroaniline	34.8U	2610	34.8	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	238U	2610	238	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	29.3U	523	29.3	ug/Kg
59-50-7	4-Chloro-3-methylphenol	49.9U	523	49.9	ug/Kg
106-47-8	4-Chloroaniline	35.2U	523	35.2	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	29.6U	523	29.6	ug/Kg
100-01-6	4-Nitroaniline	258U	2610	258	ug/Kg
100-02-7	4-Nitrophenol	147U	2610	147	ug/Kg
83-32-9	Acenaphthene	20.7U	523	20.7	ug/Kg
208-96-8	Acenaphthylene	20.7U	523	20.7	ug/Kg
120-12-7	Anthracene	18.1U	523	18.1	ug/Kg
92-87-5	Benzidine	2610U	2610	2610	ug/Kg
56-55-3	Benzo(a)anthracene	40.9U	523	40.9	ug/Kg
50-32-8	Benzo(a)pyrene	19.5U	523	19.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	48.1U	523	48.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	16.6U	523	16.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	21.2U	523	21.2	ug/Kg
65-85-0	Benzoic acid	108U	2610	108	ug/Kg
100-51-6	Benzyl alcohol	71.4U	523	71.4	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	40.9U	523	40.9	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	38.5U	523	38.5	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	32.6U	523	32.6	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	31.0U	523	31.0	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 12:46	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	9.39U	523	9.39	ug/Kg
218-01-9	Chrysene	23.0U	523	23.0	ug/Kg
84-74-2	Di-n-butyl phthalate	20.7U	523	20.7	ug/Kg
117-84-0	Di-n-octyl phthalate	7.03U	523	7.03	ug/Kg
53-70-3	Dibenz(a,h)anthracene	18.2U	523	18.2	ug/Kg
132-64-9	Dibenzofuran	16.9U	523	16.9	ug/Kg
84-66-2	Diethyl phthalate	32.1U	523	32.1	ug/Kg
131-11-3	Dimethyl phthalate	22.3U	523	22.3	ug/Kg
206-44-0	Fluoranthene	10.3U	523	10.3	ug/Kg
86-73-7	Fluorene	20.4U	523	20.4	ug/Kg
118-74-1	Hexachlorobenzene	30.2U	523	30.2	ug/Kg
87-68-3	Hexachlorobutadiene	31.7U	523	31.7	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190U	523	190	ug/Kg
67-72-1	Hexachloroethane	25.2U	523	25.2	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	48.9U	523	48.9	ug/Kg
78-59-1	Isophorone	18.4U	523	18.4	ug/Kg
91-20-3	Naphthalene	20.9U	523	20.9	ug/Kg
98-95-3	Nitrobenzene	29.1U	523	29.1	ug/Kg
87-86-5	Pentachlorophenol	200U	2610	200	ug/Kg
85-01-8	Phenanthrene	16.8U	523	16.8	ug/Kg
108-95-2	Phenol	31.4U	523	31.4	ug/Kg
129-00-0	Pyrene	24.2U	523	24.2	ug/Kg
1319-77-3MP	m,p-Cresol	73.8U	523	73.8	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	23.9U	523	23.9	ug/Kg
86-30-6	n-Nitrosodiphenylamine	16.6U	523	16.6	ug/Kg
95-48-7	o-Cresol	18.5U	523	18.5	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1370	ug/Kg	82	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1360	ug/Kg	82	46 - 122
1718-51-0	Terphenyl-d14	1660	1470	ug/Kg	88	45 - 135
4165-62-2	Phenol-d5	3320	3040	ug/Kg	92	44 - 124
367-12-4	2-Fluorophenol	3320	2930	ug/Kg	88	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2710	ug/Kg	82	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/14/2011 00:42	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	2020U	6250	2020	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1420	ug/Kg	87	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 00:49	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	880U	6770	880	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1280	1230	ug/Kg	96	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/14/2011 00:42	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2980U	20800	2980	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1370	ug/Kg	84	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:32	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.014B**	**0.019**	**0.0053**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	1	07/18/2011 17:12	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**14400**	**12.7**	**1.00**	**mg/kg**
7440-36-0	Antimony	0.19U	3.81	0.19	mg/kg
7440-38-2	**Arsenic**	**5.06**	**2.54**	**0.14**	**mg/kg**
7440-39-3	**Barium**	**134**	**0.64**	**0.017**	**mg/kg**
7440-41-7	**Beryllium**	**1.69**	**0.32**	**0.0044**	**mg/kg**
7440-43-9	**Cadmium**	**0.86**	**0.32**	**0.015**	**mg/kg**
7440-70-2	**Calcium**	**97500**	**47.7**	**1.46**	**mg/kg**
7440-47-3	**Chromium**	**21.1**	**0.64**	**0.018**	**mg/kg**
7440-48-4	**Cobalt**	**11.8**	**0.64**	**0.035**	**mg/kg**
7440-50-8	**Copper**	**17.6**	**0.64**	**0.052**	**mg/kg**
7439-89-6	**Iron**	**21200**	**6.36**	**1.44**	**mg/kg**
7439-92-1	**Lead**	**14.8**	**0.95**	**0.11**	**mg/kg**
7439-95-4	**Magnesium**	**13300**	**6.36**	**2.13**	**mg/kg**
7439-96-5	**Manganese**	**327**	**0.95**	**0.062**	**mg/kg**
7440-02-0	**Nickel**	**23.2**	**2.54**	**0.050**	**mg/kg**
7440-09-7	**Potassium**	**4460**	**31.8**	**2.89**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121309	**AOCU-HA28-2**	Solid	07/11/2011 11:05	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	1	07/18/2011 17:12	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	**Selenium**	**1.05B**	**2.54**	**0.31**	**mg/kg**
7440-22-4	Silver	0.055U	0.64	0.055	mg/kg
7440-28-0	**Thallium**	**0.36B**	**1.27**	**0.16**	**mg/kg**
7440-62-2	**Vanadium**	**40.1**	**1.27**	**0.079**	**mg/kg**
7440-66-6	**Zinc**	**77.5**	**1.27**	**0.53**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	1	07/19/2011 14:01	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16600**	**63.6**	**5.58**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 15:54	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.041U	0.794	0.041	mg/kg-N

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**37.1**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:54	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.253U	5.89	0.253	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.226U	5.89	0.226	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.232U	5.89	0.232	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.201U	5.89	0.201	ug/Kg
75-34-3	1,1-Dichloroethane	0.207U	5.89	0.207	ug/Kg
75-35-4	1,1-Dichloroethene	0.362U	5.89	0.362	ug/Kg
563-58-6	1,1-Dichloropropene	0.233U	5.89	0.233	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.133U	5.89	0.133	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.193U	5.89	0.193	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.171U	5.89	0.171	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.140U	5.89	0.140	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.821U	5.89	0.821	ug/Kg
106-93-4	1,2-Dibromoethane	0.646U	5.89	0.646	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.299U	5.89	0.299	ug/Kg
107-06-2	1,2-Dichloroethane	0.214U	5.89	0.214	ug/Kg
78-87-5	1,2-Dichloropropane	0.145U	5.89	0.145	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.134U	5.89	0.134	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.166U	5.89	0.166	ug/Kg
142-28-9	1,3-Dichloropropane	0.158U	5.89	0.158	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.167U	5.89	0.167	ug/Kg
544-10-5	1-Chlorohexane	0.173U	5.89	0.173	ug/Kg
594-20-7	2,2-Dichloropropane	0.358U	5.89	0.358	ug/Kg
78-93-3	**2-Butanone**	**16.6**	**5.89**	**0.748**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.41U	5.89	1.41	ug/Kg
95-49-8	2-Chlorotoluene	0.204U	5.89	0.204	ug/Kg
591-78-6	2-Hexanone	0.833U	5.89	0.833	ug/Kg
106-43-4	4-Chlorotoluene	0.130U	5.89	0.130	ug/Kg
99-87-6	4-Isopropyltoluene	0.100U	5.89	0.100	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.265U	5.89	0.265	ug/Kg
67-64-1	**Acetone**	**66.4**	**29.5**	**1.27**	**ug/Kg**
75-05-8	Acetonitrile	1.97U	118	1.97	ug/Kg
107-02-8	Acrolein	2.74U	29.5	2.74	ug/Kg
107-13-1	Acrylonitrile	0.683U	29.5	0.683	ug/Kg
107-05-1	Allyl chloride	0.649U	5.89	0.649	ug/Kg
71-43-2	**Benzene**	**1.87J**	**5.89**	**0.125**	**ug/Kg**
108-86-1	Bromobenzene	0.173U	5.89	0.173	ug/Kg
74-97-5	Bromochloromethane	0.284U	5.89	0.284	ug/Kg
75-27-4	Bromodichloromethane	0.159U	5.89	0.159	ug/Kg
75-25-2	Bromoform	0.252U	5.89	0.252	ug/Kg
74-83-9	Bromomethane	0.752U	5.89	0.752	ug/Kg
75-15-0	Carbon disulfide	0.425U	5.89	0.425	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:54	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.242U	5.89	0.242	ug/Kg
108-90-7	Chlorobenzene	0.211U	5.89	0.211	ug/Kg
75-00-3	Chloroethane	0.287U	5.89	0.287	ug/Kg
67-66-3	**Chloroform**	**0.980J**	**5.89**	**0.265**	**ug/Kg**
74-87-3	Chloromethane	0.666U	5.89	0.666	ug/Kg
124-48-1	Dibromochloromethane	0.225U	5.89	0.225	ug/Kg
74-95-3	Dibromomethane	0.229U	5.89	0.229	ug/Kg
75-71-8	Dichlorodifluoromethane	0.140U	5.89	0.140	ug/Kg
97-63-2	Ethyl methacrylate	0.508U	5.89	0.508	ug/Kg
100-41-4	Ethylbenzene	0.258U	5.89	0.258	ug/Kg
87-68-3	Hexachlorobutadiene	0.179U	5.89	0.179	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.110U	5.89	0.110	ug/Kg
126-98-7	Methacrylonitrile	0.520U	5.89	0.520	ug/Kg
74-88-4	Methyl iodide	1.45U	5.89	1.45	ug/Kg
80-62-6	Methyl methacrylate	0.941U	5.89	0.941	ug/Kg
75-09-2	Methylene chloride	0.567U	11.8	0.567	ug/Kg
91-20-3	Naphthalene	0.206U	5.89	0.206	ug/Kg
76-01-7	Pentachloroethane	0.962U	5.89	0.962	ug/Kg
107-12-0	Propionitrile	2.99U	5.89	2.99	ug/Kg
100-42-5	Styrene	0.485U	5.89	0.485	ug/Kg
127-18-4	Tetrachloroethene	0.240U	5.89	0.240	ug/Kg
108-88-3	**Toluene**	**1.52J**	**5.89**	**0.311**	**ug/Kg**
79-01-6	Trichloroethene	0.205U	5.89	0.205	ug/Kg
75-69-4	Trichlorofluoromethane	0.240U	5.89	0.240	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.236U	5.89	0.236	ug/Kg
108-05-4	Vinyl acetate	0.260U	5.89	0.260	ug/Kg
75-01-4	Vinyl chloride	0.295U	5.89	0.295	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.152U	5.89	0.152	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.384U	5.89	0.384	ug/Kg
136777-61-2	m,p-Xylene	0.418U	5.89	0.418	ug/Kg
104-51-8	n-Butylbenzene	0.167U	5.89	0.167	ug/Kg
110-54-3	**n-Hexane**	**1.52J**	**5.89**	**0.379**	**ug/Kg**
103-65-1	n-Propylbenzene	0.130U	5.89	0.130	ug/Kg
95-47-6	**o-Xylene**	**0.959J**	**5.89**	**0.170**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.127U	5.89	0.127	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.282U	5.89	0.282	ug/Kg
98-06-6	tert-Butylbenzene	0.163U	5.89	0.163	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.376U	5.89	0.376	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.560U	5.89	0.560	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.610U	5.89	0.610	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	41.6	42	ug/Kg	101	59 - 148
1868-53-7	Dibromofluoromethane	41.6	41.9	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	41.6	41.8	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	41.6	45.3	ug/Kg	109	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 03:54	JCK	461494

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 13:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.0U	467	16.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.7U	467	15.7	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.7U	467	17.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.7U	467	14.7	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.6U	467	31.6	ug/Kg
88-06-2	2,4,6-Trichlorophenol	111U	467	111	ug/Kg
120-83-2	2,4-Dichlorophenol	50.1U	467	50.1	ug/Kg
105-67-9	2,4-Dimethylphenol	330U	467	330	ug/Kg
51-28-5	2,4-Dinitrophenol	215U	467	215	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.3U	467	28.3	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.7U	467	37.7	ug/Kg
91-58-7	2-Chloronaphthalene	15.0U	467	15.0	ug/Kg
95-57-8	2-Chlorophenol	16.4U	467	16.4	ug/Kg
91-57-6	2-Methylnaphthalene	12.7U	467	12.7	ug/Kg
88-74-4	2-Nitroaniline	34.0U	2340	34.0	ug/Kg
88-75-5	2-Nitrophenol	34.7U	467	34.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	433U	935	433	ug/Kg
99-09-2	3-Nitroaniline	31.2U	2340	31.2	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	212U	2340	212	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.2U	467	26.2	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.6U	467	44.6	ug/Kg
106-47-8	4-Chloroaniline	31.4U	467	31.4	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.5U	467	26.5	ug/Kg
100-01-6	4-Nitroaniline	231U	2340	231	ug/Kg
100-02-7	4-Nitrophenol	132U	2340	132	ug/Kg
83-32-9	Acenaphthene	18.6U	467	18.6	ug/Kg
208-96-8	Acenaphthylene	18.6U	467	18.6	ug/Kg
120-12-7	Anthracene	16.1U	467	16.1	ug/Kg
92-87-5	Benzidine	2340U	2340	2340	ug/Kg
56-55-3	Benzo(a)anthracene	36.5U	467	36.5	ug/Kg
50-32-8	Benzo(a)pyrene	17.4U	467	17.4	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.0U	467	43.0	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.9U	467	14.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.0U	467	19.0	ug/Kg
65-85-0	Benzoic acid	96.3U	2340	96.3	ug/Kg
100-51-6	Benzyl alcohol	63.9U	467	63.9	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.5U	467	36.5	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.4U	467	34.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.2U	467	29.2	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.8U	467	27.8	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:45	460715	3550B	1	07/19/2011 13:01	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.40U	467	8.40	ug/Kg
218-01-9	Chrysene	20.5U	467	20.5	ug/Kg
84-74-2	Di-n-butyl phthalate	18.6U	467	18.6	ug/Kg
117-84-0	Di-n-octyl phthalate	6.29U	467	6.29	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.3U	467	16.3	ug/Kg
132-64-9	Dibenzofuran	15.2U	467	15.2	ug/Kg
84-66-2	Diethyl phthalate	28.7U	467	28.7	ug/Kg
131-11-3	Dimethyl phthalate	20.0U	467	20.0	ug/Kg
206-44-0	Fluoranthene	9.23U	467	9.23	ug/Kg
86-73-7	Fluorene	18.3U	467	18.3	ug/Kg
118-74-1	Hexachlorobenzene	27.0U	467	27.0	ug/Kg
87-68-3	Hexachlorobutadiene	28.3U	467	28.3	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170U	467	170	ug/Kg
67-72-1	Hexachloroethane	22.5U	467	22.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.8U	467	43.8	ug/Kg
78-59-1	Isophorone	16.4U	467	16.4	ug/Kg
91-20-3	Naphthalene	18.7U	467	18.7	ug/Kg
98-95-3	Nitrobenzene	26.1U	467	26.1	ug/Kg
87-86-5	Pentachlorophenol	178U	2340	178	ug/Kg
85-01-8	Phenanthrene	15.0U	467	15.0	ug/Kg
108-95-2	Phenol	28.0U	467	28.0	ug/Kg
129-00-0	Pyrene	21.7U	467	21.7	ug/Kg
1319-77-3MP	m,p-Cresol	66.0U	467	66.0	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.4U	467	21.4	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.9U	467	14.9	ug/Kg
95-48-7	o-Cresol	16.6U	467	16.6	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1340	ug/Kg	80	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1300	ug/Kg	78	46 - 122
1718-51-0	Terphenyl-d14	1670	1460	ug/Kg	88	45 - 135
4165-62-2	Phenol-d5	3330	3000	ug/Kg	90	44 - 124
367-12-4	2-Fluorophenol	3330	2870	ug/Kg	86	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2530	ug/Kg	76	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460687	3550B	1	07/14/2011 01:00	SMH	460895

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1830U	5660	1830	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1450	ug/Kg	87	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 01:13	BMR	461188

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	772U	5940	772	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1260	1220	ug/Kg	97	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:30	460688	3550B	1	07/14/2011 01:00	SMH	460896

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2700U	18800	2700	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1400	ug/Kg	84	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460727	SW-846 7471B	1	07/15/2011 12:36	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0048U	0.017	0.0048	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:22	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**4250**	**22.7**	**1.79**	**mg/kg**
7440-38-2	**Arsenic**	**3.08B**	**4.53**	**0.25**	**mg/kg**
7440-39-3	**Barium**	**40.5**	**1.13**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.17B**	**0.57**	**0.0078**	**mg/kg**
7440-70-2	**Calcium**	**175000**	**85.0**	**2.61**	**mg/kg**
7440-47-3	**Chromium**	**3.90**	**1.13**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**1.99**	**1.13**	**0.062**	**mg/kg**
7440-50-8	**Copper**	**7.03**	**1.13**	**0.093**	**mg/kg**
7439-89-6	**Iron**	**4980**	**11.3**	**2.57**	**mg/kg**
7439-92-1	**Lead**	**3.02**	**1.70**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**27300**	**11.3**	**3.80**	**mg/kg**
7439-96-5	**Manganese**	**179**	**1.70**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**3.33B**	**4.53**	**0.089**	**mg/kg**
7440-09-7	**Potassium**	**1270**	**56.6**	**5.15**	**mg/kg**
7440-22-4	**Silver**	**0.14B**	**1.13**	**0.099**	**mg/kg**
7440-62-2	**Vanadium**	**11.7**	**2.27**	**0.14**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121310	**AOCU-HA41-3**	Solid	07/11/2011 11:25	07/12/2011 09:25

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/18/2011 18:22	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7440-66-6	**Zinc**	**16.9**	**2.27**	**0.94**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 11:00	460726	SW-846 3050B	2	07/19/2011 15:08	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-36-0	Antimony	0.33U	6.80	0.33	mg/kg
7440-43-9	**Cadmium**	**0.38B**	**0.57**	**0.028**	**mg/kg**
7782-49-2	**Selenium**	**1.21B**	**4.53**	**0.54**	**mg/kg**
7440-23-5	**Sodium**	**14000**	**113**	**9.94**	**mg/kg**
7440-28-0	**Thallium**	**0.45B**	**2.27**	**0.28**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 15:58	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.037U	0.708	0.037	mg/kg-N

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 11:15	DJH	460756

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**29.4**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121311	**TRIP BLANK**	Water	07/11/2011 08:50	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 13:32	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107121311	**TRIP BLANK**	Water	07/11/2011 08:50	07/12/2011 09:25

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 13:32	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	84 - 120
1868-53-7	Dibromofluoromethane	50	54.2	ug/L	108	87 - 116
2037-26-5	Toluene d8	50	43.4	ug/L	87	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.5	ug/L	107	76 - 127

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 13:32	SLR	461581

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	52.5	105	59 - 134
107-02-8	Acrolein	2.49U	2.49	250	367	147	33 - 157
107-13-1	Acrylonitrile	1.62U	1.62	250	266	106	62 - 124
74-97-5	Bromochloromethane	0.238U	0.238	50.0	62.2	**124***	78 - 112
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	58.0	116	76 - 116
75-25-2	Bromoform	0.278U	0.278	50.0	52.3	105	68 - 128
74-83-9	Bromomethane	0.276U	0.276	50.0	39.3	79	55 - 151
75-15-0	Carbon disulfide	0.190U	0.190	50.0	61.1	122	67 - 147
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	60.5	121	74 - 139
75-00-3	Chloroethane	0.279U	0.279	50.0	56.8	114	54 - 166
136777-61-2	m,p-Xylene	0.099U	0.099	100	98.2	98	83 - 121
67-66-3	Chloroform	0.062U	0.062	50.0	56.1	112	85 - 123
74-87-3	Chloromethane	0.076U	0.076	50.0	52.8	106	55 - 173
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	52.5	105	74 - 116
74-95-3	Dibromomethane	0.197U	0.197	50.0	58.8	**118***	81 - 116
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	56.2	112	34 - 158
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	59.0	118	82 - 127
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.4	111	76 - 122
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	59.7	**119***	81 - 114
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	57.3	115	82 - 126
75-09-2	Methylene chloride	0.102U	0.102	50.0	53.3	107	69 - 125
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	58.4	117	81 - 120
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	59.3	119	83 - 119
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.6	101	87 - 123
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.6	101	87 - 118
97-63-2	Ethyl methacrylate	0.340U	0.340				
591-78-6	2-Hexanone	0.302U	0.302	50.0	53.4	107	58 - 125
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.0	104	87 - 131
78-93-3	2-Butanone	0.235U	0.235	50.0	61.8	124	61 - 127
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	57.4	115	62 - 125
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.6	103	86 - 125
100-42-5	Styrene	0.058U	0.058	50.0	51.0	102	78 - 118

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	54.4	109	80 - 131
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.0	102	81 - 119
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	51.3	103	71 - 120
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	52.8	106	68 - 123
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	59.0	118	79 - 133
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	50.1	100	80 - 114
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	57.3	115	66 - 156
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	50.1	100	77 - 115
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.4	99	82 - 120
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	50.6	101	83 - 123
75-01-4	Vinyl chloride	0.104U	0.104	50.0	58.4	117	57 - 153
95-47-6	o-Xylene	0.077U	0.077	50.0	49.2	98	83 - 121
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	50.4	101	61 - 118
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 115
80-62-6	Methyl methacrylate	0.606U	0.606				
107-12-0	Propionitrile	3.06U	3.06				
108-05-4	Vinyl acetate	0.197U	0.197	50.0	49.3	99	38 - 159
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	57.1	114	75 - 116
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	52.3	105	83 - 125
110-54-3	n-Hexane	0.126U	0.126	50.0	69.9	**140***	71 - 134
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	49.9	100	51 - 137
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	56.9	114	77 - 138
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	61.0	122	74 - 139
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	61.5	123	87 - 127
110-75-8	2-Chloroethylvinyl ether	1.00U	1.00	50.0	59.2	118	63 - 125
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	49.5	99	81 - 113
108-86-1	Bromobenzene	0.095U	0.095	50.0	50.5	101	83 - 115
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	50.0	100	81 - 121
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	49.0	98	84 - 120
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	58.3	117	83 - 126
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	51.6	103	86 - 127
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	86 - 115
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	51.8	104	87 - 113

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062		LCS461062		
Prep Batch N/A		**GCAL ID**	969136		969137		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/16/2011 09:00		07/16/2011 06:52		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	50.2	100	84 - 124
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	53.2	106	85 - 115
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	54.2	108	71 - 133
91-20-3	Naphthalene	0.175U	0.175	50.0	49.4	99	59 - 125
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	52.5	105	64 - 126
75-05-8	Acetonitrile	5.04U	5.04				
107-05-1	Allyl chloride	0.343U	0.343				
544-10-5	1-Chlorohexane	0.139U	0.139	50.0	53.8	108	87 - 128
76-01-7	Pentachloroethane	1.87U	1.87				
126-98-7	Methacrylonitrile	0.743U	0.743				
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	59.3	119	75 - 133
71-43-2	Benzene	0.049U	0.049	50.0	59.0	118	83 - 124
79-01-6	Trichloroethene	0.094U	0.094	50.0	61.0	122	85 - 124
108-88-3	Toluene	0.078U	0.078	50.0	50.9	102	86 - 116
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.9	100	87 - 115
Surrogate							
460-00-4	4-Bromofluorobenzene	51.5	103	50	52	104	84 - 120
1868-53-7	Dibromofluoromethane	52.7	105	50	51.9	104	87 - 116
2037-26-5	Toluene d8	46.1	92	50	47.6	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	49.1	98	50	48.6	97	76 - 127

Analytical Batch 461062		**Client ID**	MB461062		LCS461062			LCSD461062			
Prep Batch N/A		**GCAL ID**	969136		969248			969249			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	07/16/2011 09:00		07/16/2011 07:57			07/16/2011 18:06			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322								
107-02-8	Acrolein	2.49U	2.49								
107-13-1	Acrylonitrile	1.62U	1.62								
74-97-5	Bromochloromethane	0.238U	0.238								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-27-4	Bromodichloromethane		0.071U	0.071								
75-25-2	Bromoform		0.278U	0.278								
74-83-9	Bromomethane		0.276U	0.276								
75-15-0	Carbon disulfide		0.190U	0.190								
56-23-5	Carbon tetrachloride		0.056U	0.056								
75-00-3	Chloroethane		0.279U	0.279								
136777-61-2	m,p-Xylene		0.099U	0.099								
67-66-3	Chloroform		0.062U	0.062								
74-87-3	Chloromethane		0.076U	0.076								
124-48-1	Dibromochloromethane		0.133U	0.133								
74-95-3	Dibromomethane		0.197U	0.197								
75-71-8	Dichlorodifluoromethane		0.088U	0.088								
75-34-3	1,1-Dichloroethane		0.064U	0.064								
107-06-2	1,2-Dichloroethane		0.121U	0.121								
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104								
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096								
75-09-2	Methylene chloride		0.102U	0.102								
78-87-5	1,2-Dichloropropane		0.114U	0.114								
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105								
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068								
100-41-4	Ethylbenzene		0.180U	0.180								
97-63-2	Ethyl methacrylate		0.340U	0.340	50.0	49.5	99	68 - 110	59.8	**120***	19	30
591-78-6	2-Hexanone		0.302U	0.302								
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058								
78-93-3	2-Butanone		0.235U	0.235								
74-88-4	Methyl iodide		0.097U	0.097								
108-10-1	4-Methyl-2-pentanone		0.142U	0.142								
103-65-1	n-Propylbenzene		0.069U	0.069								
100-42-5	Styrene		0.058U	0.058								
127-18-4	Tetrachloroethene		0.141U	0.141								
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150								
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112								
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
71-55-6	1,1,1-Trichloroethane		0.078U	0.078								
79-00-5	1,1,2-Trichloroethane		0.179U	0.179								
75-69-4	Trichlorofluoromethane		0.094U	0.094								
96-18-4	1,2,3-Trichloropropane		0.063U	0.063								
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080								
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053								
75-01-4	Vinyl chloride		0.104U	0.104								
95-47-6	o-Xylene		0.077U	0.077								
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082								
106-93-4	1,2-Dibromoethane		0.169U	0.169								
80-62-6	Methyl methacrylate		0.606U	0.606	50.0	56.5	113	63 - 115	47.9	96	16	30
107-12-0	Propionitrile		3.06U	3.06	250	281	112	69 - 119	268	107	5	30
108-05-4	Vinyl acetate		0.197U	0.197								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084								
99-87-6	4-Isopropyltoluene		0.175U	0.175								
110-54-3	n-Hexane		0.126U	0.126								
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429								
594-20-7	2,2-Dichloropropane		0.112U	0.112								
76-13-1	Trichlorotrifluoroethane		0.141U	0.141								
563-58-6	1,1-Dichloropropene		0.071U	0.071								
110-75-8	2-Chloroethylvinyl ether		1.00U	1.00								
142-28-9	1,3-Dichloropropane		0.113U	0.113								
108-86-1	Bromobenzene		0.095U	0.095								
95-49-8	2-Chlorotoluene		0.090U	0.090								
106-43-4	4-Chlorotoluene		0.046U	0.046								
98-06-6	tert-Butylbenzene		0.058U	0.058								
135-98-8	sec-Butylbenzene		0.088U	0.088								
541-73-1	1,3-Dichlorobenzene		0.080U	0.080								
106-46-7	1,4-Dichlorobenzene		0.058U	0.058								
104-51-8	n-Butylbenzene		0.068U	0.068								
95-50-1	1,2-Dichlorobenzene		0.086U	0.086								
87-68-3	Hexachlorobutadiene		0.347U	0.347								
91-20-3	Naphthalene		0.175U	0.175								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107								
75-05-8	Acetonitrile		5.04U	5.04	250	291	116	57 - 123	174	70	**50***	30
107-05-1	Allyl chloride		0.343U	0.343	50.0	47.5	95	48 - 136	39.0	78	20	30
544-10-5	1-Chlorohexane		0.139U	0.139								
76-01-7	Pentachloroethane		1.87U	1.87	50.0	48.1	96	82 - 111	51.5	103	7	30
126-98-7	Methacrylonitrile		0.743U	0.743	50.0	51.0	102	62 - 133	49.1	98	4	30
75-35-4	1,1-Dichloroethene		0.183U	0.183								
71-43-2	Benzene		0.049U	0.049								
79-01-6	Trichloroethene		0.094U	0.094								
108-88-3	Toluene		0.078U	0.078								
108-90-7	Chlorobenzene		0.055U	0.055								
Surrogate												
460-00-4	4-Bromofluorobenzene		51.5	103	50	51.7	103	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane		52.7	105	50	50.6	101	87 - 116	46.7	93		
2037-26-5	Toluene d8		46.1	92	50	46.5	93	86 - 112	55	110		
17060-07-0	1,2-Dichloroethane-d4		49.1	98	50	51.1	102	76 - 127	51.3	103		

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970257			970258		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 17:59			07/19/2011 18:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.08U	1.08	50.0	45.3	91	61 - 144	48.5	97	7	30
107-02-8	Acrolein		2.33U	2.33	250	182	73	27 - 156	187	75	3	30
107-13-1	Acrylonitrile		0.580U	0.580	250	213	85	55 - 144	222	89	4	30
74-97-5	Bromochloromethane		0.241U	0.241	50.0	51.1	102	72 - 122	51.0	102	0.2	30
75-27-4	Bromodichloromethane		0.135U	0.135	50.0	52.2	104	73 - 122	52.7	105	1	30
75-25-2	Bromoform		0.214U	0.214	50.0	56.5	113	70 - 139	59.2	118	5	30
74-83-9	Bromomethane		0.638U	0.638	50.0	46.1	92	60 - 146	48.0	96	4	30
75-15-0	Carbon disulfide		0.361U	0.361	50.0	47.8	96	61 - 142	47.6	95	0.4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363	**Client ID**	MB461363	LCS461363	LCSD461363
Prep Batch N/A	**GCAL ID**	970256	970257	970258
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/19/2011 23:24	07/19/2011 17:59	07/19/2011 18:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
56-23-5	Carbon tetrachloride	0.205U	0.205	50.0	51.5	103	79 - 135	49.9	100	3	30
75-00-3	Chloroethane	0.244U	0.244	50.0	51.0	102	61 - 153	52.0	104	2	30
136777-61-2	m,p-Xylene	0.355U	0.355	100	102	102	82 - 128	102	102	0	30
67-66-3	Chloroform	1.08J	0.225	50.0	51.8	104	79 - 129	50.6	101	2	30
74-87-3	Chloromethane	0.565U	0.565	50.0	53.1	106	58 - 163	54.7	109	3	30
124-48-1	Dibromochloromethane	0.191U	0.191	50.0	54.4	109	78 - 117	57.0	114	5	30
74-95-3	Dibromomethane	0.194U	0.194	50.0	51.5	103	75 - 128	52.7	105	2	30
75-71-8	Dichlorodifluoromethane	0.119U	0.119	50.0	51.8	104	35 - 162	50.8	102	2	30
75-34-3	1,1-Dichloroethane	0.176U	0.176	50.0	48.3	97	77 - 132	47.6	95	1	30
107-06-2	1,2-Dichloroethane	0.182U	0.182	50.0	50.4	101	78 - 129	51.9	104	3	30
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129	50.0	48.4	97	74 - 123	48.7	97	0.6	30
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319	50.0	50.3	101	77 - 129	49.9	100	0.8	30
75-09-2	Methylene chloride	0.481U	0.481	50.0	44.8	90	62 - 140	45.3	91	1	30
78-87-5	1,2-Dichloropropane	0.123U	0.123	50.0	51.6	103	74 - 127	52.3	105	1	30
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326	50.0	52.2	104	79 - 130	52.9	106	1	30
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475	50.0	53.7	107	87 - 131	55.3	111	3	30
100-41-4	Ethylbenzene	0.219U	0.219	50.0	51.3	103	82 - 124	51.8	104	1	30
97-63-2	Ethyl methacrylate	0.431U	0.431								
591-78-6	2-Hexanone	0.707U	0.707	50.0	50.8	102	67 - 130	52.7	105	4	30
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093	50.0	50.5	101	82 - 133	50.2	100	0.6	30
78-93-3	2-Butanone	0.635U	0.635	50.0	55.3	111	66 - 134	57.9	116	5	30
74-88-4	Methyl iodide	1.23U	1.23	50.0	53.2	106	66 - 128	52.1	104	2	30
108-10-1	4-Methyl-2-pentanone	0.225U	0.225	50.0	52.5	105	69 - 125	53.7	107	2	30
103-65-1	n-Propylbenzene	0.110U	0.110	50.0	48.3	97	78 - 129	48.1	96	0.4	30
100-42-5	Styrene	0.412U	0.412	50.0	52.7	105	79 - 123	53.9	108	2	30
127-18-4	Tetrachloroethene	0.204U	0.204	50.0	51.6	103	79 - 132	51.2	102	0.8	30
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215	50.0	54.2	108	81 - 121	55.2	110	2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197	50.0	50.7	101	70 - 128	51.8	104	2	30
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145	50.0	48.4	97	82 - 137	50.7	101	5	30
71-55-6	1,1,1-Trichloroethane	0.192U	0.192	50.0	50.6	101	80 - 133	49.3	99	3	30
79-00-5	1,1,2-Trichloroethane	0.171U	0.171	50.0	53.3	107	76 - 118	56.5	113	6	30
75-69-4	Trichlorofluoromethane	0.204U	0.204	50.0	51.3	103	67 - 149	50.1	100	2	30
96-18-4	1,2,3-Trichloropropane	0.164U	0.164	50.0	53.2	106	74 - 125	54.4	109	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970257			970258		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 17:59			07/19/2011 18:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	ug/Kg		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119		50.0	50.2	100	77 - 129	50.3	101	0.2	30
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114		50.0	48.3	97	79 - 129	47.6	95	1	30
75-01-4	Vinyl chloride	0.250U	0.250		50.0	51.7	103	60 - 145	50.8	102	2	30
95-47-6	o-Xylene	0.144U	0.144		50.0	50.6	101	82 - 126	51.0	102	0.8	30
96-12-8	1,2-Dibromo-3-chloropropane	0.697U	0.697		50.0	52.2	104	67 - 129	55.5	111	6	30
106-93-4	1,2-Dibromoethane	0.548U	0.548		50.0	53.5	107	77 - 126	55.6	111	4	30
80-62-6	Methyl methacrylate	0.799U	0.799									
107-12-0	Propionitrile	2.54U	2.54									
108-05-4	Vinyl acetate	0.221U	0.221		50.0	33.9	68	25 - 164	32.7	65	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.239U	0.239		50.0	47.3	95	70 - 131	49.2	98	4	30
99-87-6	4-Isopropyltoluene	0.085U	0.085		50.0	48.2	96	82 - 132	48.3	97	0.2	30
110-54-3	n-Hexane	0.322U	0.322		50.0	45.5	91	65 - 147	44.4	89	2	30
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518		50.0	53.8	108	74 - 138	54.7	109	2	30
594-20-7	2,2-Dichloropropane	0.304U	0.304		50.0	47.8	96	80 - 137	47.4	95	0.8	30
76-13-1	Trichlorotrifluoroethane	0.200U	0.200		50.0	49.0	98	62 - 147	48.5	97	1	30
563-58-6	1,1-Dichloropropene	0.198U	0.198		50.0	49.9	100	81 - 133	49.4	99	1	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20		50.0	52.1	104	52 - 142	54.4	109	4	30
142-28-9	1,3-Dichloropropane	0.134U	0.134		50.0	53.0	106	78 - 118	55.2	110	4	30
108-86-1	Bromobenzene	0.147U	0.147		50.0	49.2	98	78 - 123	49.9	100	1	30
95-49-8	2-Chlorotoluene	0.173U	0.173		50.0	49.3	99	77 - 123	48.9	98	0.8	30
106-43-4	4-Chlorotoluene	0.110U	0.110		50.0	49.0	98	78 - 129	49.1	98	0.2	30
98-06-6	tert-Butylbenzene	0.138U	0.138		50.0	49.0	98	79 - 130	48.7	97	0.6	30
135-98-8	sec-Butylbenzene	0.108U	0.108		50.0	49.9	100	82 - 132	48.6	97	3	30
541-73-1	1,3-Dichlorobenzene	0.141U	0.141		50.0	50.0	100	82 - 126	50.6	101	1	30
106-46-7	1,4-Dichlorobenzene	0.142U	0.142		50.0	48.8	98	84 - 124	49.3	99	1	30
104-51-8	n-Butylbenzene	0.142U	0.142		50.0	47.8	96	80 - 138	47.7	95	0.2	30
95-50-1	1,2-Dichlorobenzene	0.254U	0.254		50.0	49.6	99	83 - 123	50.8	102	2	30
87-68-3	Hexachlorobutadiene	0.152U	0.152		50.0	50.3	101	77 - 150	49.5	99	2	30
91-20-3	Naphthalene	0.175U	0.175		50.0	48.9	98	59 - 143	52.8	106	8	30
87-61-6	1,2,3-Trichlorobenzene	0.113U	0.113		50.0	50.1	100	78 - 136	51.5	103	3	30
75-05-8	Acetonitrile	1.67U	1.67									
107-05-1	Allyl chloride	0.551U	0.551									
544-10-5	1-Chlorohexane	0.147U	0.147		50.0	52.0	104	85 - 137	48.7	97	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970257			970258		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 17:59			07/19/2011 18:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
76-01-7	Pentachloroethane		0.817U	0.817								
126-98-7	Methacrylonitrile		0.441U	0.441								
75-35-4	1,1-Dichloroethene		0.307U	0.307	50.0	47.9	96	66 - 132	49.2	98	3	30
71-43-2	Benzene		0.106U	0.106	50.0	49.7	99	78 - 130	50.0	100	0.6	30
79-01-6	Trichloroethene		0.174U	0.174	50.0	52.9	106	78 - 132	53.0	106	0.2	30
108-88-3	Toluene		0.264U	0.264	50.0	51.4	103	80 - 123	51.2	102	0.4	30
108-90-7	Chlorobenzene		0.179U	0.179	50.0	50.8	102	83 - 122	52.1	104	3	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	51	102	59 - 148	51.4	103		
1868-53-7	Dibromofluoromethane		51.1	102	50	50.3	101	80 - 121	50.9	102		
2037-26-5	Toluene d8		50.5	101	50	50.3	101	71 - 130	51.2	102		
17060-07-0	1,2-Dichloroethane-d4		54.7	109	50	50.9	102	77 - 123	50.8	102		

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970298			970299		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.08U	1.08								
107-02-8	Acrolein		2.33U	2.33								
107-13-1	Acrylonitrile		0.580U	0.580								
74-97-5	Bromochloromethane		0.241U	0.241								
75-27-4	Bromodichloromethane		0.135U	0.135								
75-25-2	Bromoform		0.214U	0.214								
74-83-9	Bromomethane		0.638U	0.638								
75-15-0	Carbon disulfide		0.361U	0.361								
56-23-5	Carbon tetrachloride		0.205U	0.205								
75-00-3	Chloroethane		0.244U	0.244								
136777-61-2	m,p-Xylene		0.355U	0.355								
67-66-3	Chloroform		1.08J	0.225								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363	**Client ID**	MB461363			LCS461363			LCSD461363			
Prep Batch N/A	**GCAL ID**	970256			970298			970299			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15			
	Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
74-87-3	Chloromethane	0.565U	0.565								
124-48-1	Dibromochloromethane	0.191U	0.191								
74-95-3	Dibromomethane	0.194U	0.194								
75-71-8	Dichlorodifluoromethane	0.119U	0.119								
75-34-3	1,1-Dichloroethane	0.176U	0.176								
107-06-2	1,2-Dichloroethane	0.182U	0.182								
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129								
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319								
75-09-2	Methylene chloride	0.481U	0.481								
78-87-5	1,2-Dichloropropane	0.123U	0.123								
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326								
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475								
100-41-4	Ethylbenzene	0.219U	0.219								
97-63-2	Ethyl methacrylate	0.431U	0.431	50.0	48.3	97	78 - 118	47.7	95	1	30
591-78-6	2-Hexanone	0.707U	0.707								
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093								
78-93-3	2-Butanone	0.635U	0.635								
74-88-4	Methyl iodide	1.23U	1.23								
108-10-1	4-Methyl-2-pentanone	0.225U	0.225								
103-65-1	n-Propylbenzene	0.110U	0.110								
100-42-5	Styrene	0.412U	0.412								
127-18-4	Tetrachloroethene	0.204U	0.204								
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215								
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197								
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145								
71-55-6	1,1,1-Trichloroethane	0.192U	0.192								
79-00-5	1,1,2-Trichloroethane	0.171U	0.171								
75-69-4	Trichlorofluoromethane	0.204U	0.204								
96-18-4	1,2,3-Trichloropropane	0.164U	0.164								
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119								
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114								
75-01-4	Vinyl chloride	0.250U	0.250								
95-47-6	o-Xylene	0.144U	0.144								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970298			970299		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
96-12-8	1,2-Dibromo-3-chloropropane		0.697U	0.697								
106-93-4	1,2-Dibromoethane		0.548U	0.548								
80-62-6	Methyl methacrylate		0.799U	0.799	50.0	46.7	93	73 - 125	47.0	94	0.6	30
107-12-0	Propionitrile		2.54U	2.54	250	238	95	73 - 133	236	94	0.8	30
108-05-4	Vinyl acetate		0.221U	0.221								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.239U	0.239								
99-87-6	4-Isopropyltoluene		0.085U	0.085								
110-54-3	n-Hexane		0.322U	0.322								
110-57-6	trans-1,4-Dichloro-2-butene		0.518U	0.518								
594-20-7	2,2-Dichloropropane		0.304U	0.304								
76-13-1	Trichlorotrifluoroethane		0.200U	0.200								
563-58-6	1,1-Dichloropropene		0.198U	0.198								
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20								
142-28-9	1,3-Dichloropropane		0.134U	0.134								
108-86-1	Bromobenzene		0.147U	0.147								
95-49-8	2-Chlorotoluene		0.173U	0.173								
106-43-4	4-Chlorotoluene		0.110U	0.110								
98-06-6	tert-Butylbenzene		0.138U	0.138								
135-98-8	sec-Butylbenzene		0.108U	0.108								
541-73-1	1,3-Dichlorobenzene		0.141U	0.141								
106-46-7	1,4-Dichlorobenzene		0.142U	0.142								
104-51-8	n-Butylbenzene		0.142U	0.142								
95-50-1	1,2-Dichlorobenzene		0.254U	0.254								
87-68-3	Hexachlorobutadiene		0.152U	0.152								
91-20-3	Naphthalene		0.175U	0.175								
87-61-6	1,2,3-Trichlorobenzene		0.113U	0.113								
75-05-8	Acetonitrile		1.67U	1.67	250	230	92	59 - 139	225	90	2	30
107-05-1	Allyl chloride		0.551U	0.551	50.0	54.1	108	41 - 152	48.8	98	10	30
544-10-5	1-Chlorohexane		0.147U	0.147								
76-01-7	Pentachloroethane		0.817U	0.817	50.0	348	**696***	64 - 156	173	**346***	67	
126-98-7	Methacrylonitrile		0.441U	0.441	50.0	48.0	96	70 - 138	51.3	103	7	30
75-35-4	1,1-Dichloroethene		0.307U	0.307								
71-43-2	Benzene		0.106U	0.106								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970298			970299		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.174U	0.174								
108-88-3	Toluene		0.264U	0.264								
108-90-7	Chlorobenzene		0.179U	0.179								
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	49.3	99	59 - 148	49.7	99		
1868-53-7	Dibromofluoromethane		51.1	102	50	48.7	97	80 - 121	49.2	98		
2037-26-5	Toluene d8		50.5	101	50	49.8	100	71 - 130	50.5	101		
17060-07-0	1,2-Dichloroethane-d4		54.7	109	50	52.2	104	77 - 123	50.8	102		

Analytical Batch 461363		**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD		
Prep Batch N/A		**GCAL ID**	21107121305			21107121306			21107121307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/19/2011 23:56			07/20/2011 00:22			07/20/2011 00:49		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.168	37.9	37.2	98	81 - 121	37.1	98	0.3	30
71-55-6	1,1,1-Trichloroethane		0.00	0.150	37.9	40.8	108	80 - 133	39.9	106	2	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.154	37.9	45.0	119	70 - 128	45.4	120	0.9	30
79-00-5	1,1,2-Trichloroethane		0.00	0.133	37.9	38.9	103	76 - 118	40.1	106	3	30
75-34-3	1,1-Dichloroethane		0.00	0.137	37.9	40.1	106	77 - 132	39.1	104	3	30
75-35-4	1,1-Dichloroethene		0.00	0.239	37.9	41.0	108	66 - 132	38.3	102	7	22
563-58-6	1,1-Dichloropropene		0.00	0.154	37.9	40.5	107	81 - 133	39.6	105	2	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.088	37.9	27.0	**71***	78 - 136	29.4	78	9	30
96-18-4	1,2,3-Trichloropropane		0.00	0.128	37.9	56.8	**150***	74 - 125	55.0	**146***	3	30
120-82-1	1,2,4-Trichlorobenzene		0.00	0.113	37.9	27.7	**73***	82 - 137	29.7	**79***	7	30
95-63-6	1,2,4-Trimethylbenzene		0.00	0.093	37.9	34.9	92	77 - 129	35.0	93	0.3	30
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.544	37.9	48.3	127	67 - 129	48.2	128	0.2	30
106-93-4	1,2-Dibromoethane		0.00	0.427	37.9	40.0	105	77 - 126	39.6	105	1	30
95-50-1	1,2-Dichlorobenzene		0.00	0.198	37.9	34.6	91	83 - 123	34.9	93	0.9	30
107-06-2	1,2-Dichloroethane		0.00	0.142	37.9	38.8	102	78 - 129	38.6	102	0.5	30
78-87-5	1,2-Dichloropropane		0.00	0.096	37.9	41.4	109	74 - 127	41.0	109	1	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD		
Prep Batch N/A		**GCAL ID**	21107121305			21107121306			21107121307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/19/2011 23:56			07/20/2011 00:22			07/20/2011 00:49		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-67-8	1,3,5-Trimethylbenzene	0.00	0.089	37.9	32.7	86	79 - 129	33.0	88	0.9	30
541-73-1	1,3-Dichlorobenzene	0.00	0.110	37.9	35.1	93	82 - 126	35.3	94	0.6	30
142-28-9	1,3-Dichloropropane	0.00	0.105	37.9	39.6	104	78 - 118	40.0	106	1	30
106-46-7	1,4-Dichlorobenzene	0.00	0.111	37.9	34.4	91	84 - 124	34.4	91	0	30
544-10-5	1-Chlorohexane	0.00	0.115	37.9	35.7	94	85 - 137	36.3	96	2	30
594-20-7	2,2-Dichloropropane	0.00	0.237	37.9	41.2	109	80 - 137	38.3	102	7	30
78-93-3	2-Butanone	4.20	0.495	37.9	44.9	107	66 - 134	43.6	104	3	30
110-75-8	2-Chloroethylvinyl ether	0.00	0.936	37.9	41.6	110	52 - 142	37.4	99	11	30
95-49-8	2-Chlorotoluene	0.00	0.135	37.9	35.0	92	77 - 123	34.6	92	1	30
591-78-6	2-Hexanone	0.00	0.551	37.9	36.9	97	67 - 130	37.1	98	0.5	30
106-43-4	4-Chlorotoluene	0.00	0.086	37.9	35.2	93	78 - 129	34.8	92	1	30
99-87-6	4-Isopropyltoluene	0.00	0.066	37.9	31.3	83	82 - 132	32.1	85	3	30
108-10-1	4-Methyl-2-pentanone	0.00	0.176	37.9	46.6	123	69 - 125	46.8	124	0.4	30
67-64-1	Acetone	9.81	0.842	37.9	41.5	84	61 - 144	36.7	71	12	30
75-05-8	Acetonitrile	0.00	1.30	190	213	112	59 - 139	221	117	4	30
107-02-8	Acrolein	0.00	1.82	190	165	87	27 - 156	159	84	4	30
107-13-1	Acrylonitrile	0.00	0.452	190	196	103	55 - 144	200	106	2	30
107-05-1	Allyl chloride	0.00	0.430	37.9	40.0	105	41 - 152	36.6	97	9	30
71-43-2	Benzene	3.60	0.083	37.9	41.1	99	78 - 130	40.0	97	3	21
108-86-1	Bromobenzene	0.00	0.115	37.9	35.8	94	78 - 123	35.2	93	2	30
74-97-5	Bromochloromethane	0.00	0.188	37.9	38.7	102	72 - 122	37.8	100	2	30
75-27-4	Bromodichloromethane	0.00	0.105	37.9	39.6	104	73 - 122	39.5	105	0.3	30
75-25-2	Bromoform	0.00	0.167	37.9	42.2	111	70 - 139	42.8	114	1	30
74-83-9	Bromomethane	0.00	0.498	37.9	42.0	111	60 - 146	38.5	102	9	30
75-15-0	Carbon disulfide	0.00	0.282	37.9	39.4	104	61 - 142	38.2	101	3	30
56-23-5	Carbon tetrachloride	0.00	0.160	37.9	41.7	110	79 - 135	40.7	108	2	30
108-90-7	Chlorobenzene	0.00	0.140	37.9	35.8	94	83 - 122	35.6	94	0.6	21
75-00-3	Chloroethane	0.00	0.190	37.9	23.4	62	61 - 153	21.1	**56***	10	30
67-66-3	Chloroform	0.782	0.176	37.9	39.7	103	79 - 129	38.8	101	2	30
74-87-3	Chloromethane	0.00	0.441	37.9	42.0	111	58 - 163	40.3	107	4	30
124-48-1	Dibromochloromethane	0.00	0.149	37.9	37.9	100	78 - 117	38.7	103	2	30
74-95-3	Dibromomethane	0.00	0.151	37.9	39.9	105	75 - 128	39.3	104	2	30
75-71-8	Dichlorodifluoromethane	0.00	0.093	37.9	43.1	114	35 - 162	43.4	115	0.7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD		
Prep Batch N/A		**GCAL ID**	21107121305			21107121306			21107121307		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/19/2011 23:56			07/20/2011 00:22			07/20/2011 00:49		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	ug/Kg		**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
97-63-2	Ethyl methacrylate	0.00	0.336	37.9	37.7	99	78 - 118	38.5	102	2	30
100-41-4	Ethylbenzene	0.00	0.171	37.9	36.7	97	82 - 124	36.8	98	0.3	30
87-68-3	Hexachlorobutadiene	0.00	0.119	37.9	19.1	**50***	77 - 150	20.2	**54***	6	30
98-82-8	Isopropylbenzene (Cumene)	0.00	0.073	37.9	34.5	91	82 - 133	35.1	93	2	30
126-98-7	Methacrylonitrile	0.00	0.344	37.9	44.4	117	70 - 138	43.7	116	2	30
74-88-4	Methyl iodide	0.00	0.959	37.9	39.9	105	66 - 128	36.6	97	9	30
80-62-6	Methyl methacrylate	0.00	0.623	37.9	43.3	114	73 - 125	44.4	118	3	30
75-09-2	Methylene chloride	0.00	0.375	37.9	31.4	83	62 - 140	30.2	80	4	30
91-20-3	Naphthalene	0.00	0.137	37.9	34.2	90	59 - 143	36.1	96	5	30
76-01-7	Pentachloroethane	0.00	0.637	37.9	342	**902***	64 - 156	278	**737***	21	
107-12-0	Propionitrile	0.00	1.98	190	237	125	73 - 133	242	128	2	30
100-42-5	Styrene	0.00	0.321	37.9	35.8	94	79 - 123	35.5	94	0.8	30
127-18-4	Tetrachloroethene	0.00	0.159	37.9	41.1	108	79 - 132	45.1	120	9	30
108-88-3	Toluene	2.74	0.206	37.9	38.1	93	80 - 123	38.5	95	1	21
79-01-6	Trichloroethene	0.00	0.136	37.9	40.8	108	78 - 132	40.2	107	1	24
75-69-4	Trichlorofluoromethane	0.00	0.159	37.9	41.8	110	67 - 149	41.7	111	0.2	30
76-13-1	Trichlorotrifluoroethane	0.00	0.156	37.9	42.0	111	62 - 147	42.2	112	0.5	30
108-05-4	Vinyl acetate	0.00	0.172	37.9	37.0	98	25 - 164	35.4	94	4	30
75-01-4	Vinyl chloride	0.00	0.195	37.9	42.8	113	60 - 145	41.1	109	4	30
156-59-2	cis-1,2-Dichloroethene	0.00	0.101	37.9	37.6	99	74 - 123	36.4	97	3	30
10061-01-5	cis-1,3-Dichloropropene	0.00	0.254	37.9	40.0	105	79 - 130	39.0	103	3	30
136777-61-2	m,p-Xylene	0.554	0.277	75.9	72.5	95	82 - 128	72.7	96	0.3	30
104-51-8	n-Butylbenzene	0.00	0.111	37.9	28.6	**75***	80 - 138	30.1	80	5	30
110-54-3	n-Hexane	2.11	0.251	37.9	37.5	93	65 - 147	39.6	99	5	30
103-65-1	n-Propylbenzene	0.00	0.086	37.9	34.5	91	78 - 129	34.5	91	0	30
95-47-6	o-Xylene	0.880	0.112	37.9	35.3	91	82 - 126	35.5	92	0.6	30
135-98-8	sec-Butylbenzene	0.00	0.084	37.9	31.6	83	82 - 132	32.5	86	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.186	37.9	37.3	98	70 - 131	36.9	98	1	30
98-06-6	tert-Butylbenzene	0.00	0.108	37.9	33.4	88	79 - 130	33.5	89	0.3	30
156-60-5	trans-1,2-Dichloroethene	0.00	0.249	37.9	40.5	107	77 - 129	39.2	104	3	30
10061-02-6	trans-1,3-Dichloropropene	0.00	0.371	37.9	38.4	101	87 - 131	38.3	102	0.3	30
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.404	75.9	101	133	74 - 138	94.5	125	7	30
Surrogate											

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363	**Client ID**	AOCU-HA24-1	AOCU-HA24-1-MS	AOCU-HA24-1-MSD
Prep Batch N/A	**GCAL ID**	21107121305	21107121306	21107121307
	Sample Type	SAMPLE	MS	MSD
	Analytical Date	07/19/2011 23:56	07/20/2011 00:22	07/20/2011 00:49
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**RPD Limit**
460-00-4	4-Bromofluorobenzene	37.8	97	37.9	36.2	95	59 - 148	36.7	97		
1868-53-7	Dibromofluoromethane	40.1	103	37.9	39.9	105	80 - 121	39.8	106		
2037-26-5	Toluene d8	38.9	100	37.9	35.3	93	71 - 130	35.8	95		
17060-07-0	1,2-Dichloroethane-d4	42.3	108	37.9	45.3	119	77 - 123	42.3	112		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461317	**Client ID**	MB460715			LCS460715			LCSD460715			
Prep Batch	460715	**GCAL ID**	967412			967413			967414			
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	07/13/2011 11:45			07/13/2011 11:45			07/13/2011 11:45			
		Analytical Date	07/19/2011 10:17			07/19/2011 15:18			07/19/2011 15:34			
		Matrix	Solid			Solid			Solid			
SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	13.1U	13.1								
120-12-7	Anthracene	11.4U	11.4								
56-55-3	Benzo(a)anthracene	25.8U	25.8								
92-87-5	Benzidine	1650U	1650								
205-99-2	Benzo(b)fluoranthene	30.4U	30.4								
207-08-9	Benzo(k)fluoranthene	13.4U	13.4								
191-24-2	Benzo(g,h,i)perylene	10.5U	10.5								
50-32-8	Benzo(a)pyrene	12.3U	12.3								
65-85-0	Benzoic acid	68.0U	68.0								
85-68-7	Butyl benzyl phthalate	5.93U	5.93								
111-91-1	Bis(2-Chloroethoxy)methane	25.8U	25.8								
111-44-4	Bis(2-Chloroethyl)ether	24.3U	24.3								
108-60-1	Bis(2-Chloroisopropyl)ether	20.6U	20.6								
117-81-7	Bis(2-Ethylhexyl)phthalate	19.6U	19.6								
101-55-3	4-Bromophenyl phenyl ether	18.5U	18.5								
7005-72-3	4-Chlorophenyl phenyl ether	18.7U	18.7								
218-01-9	Chrysene	14.5U	14.5								
53-70-3	Dibenz(a,h)anthracene	11.5U	11.5								
132-64-9	Dibenzofuran	10.7U	10.7								
95-50-1	1,2-Dichlorobenzene	11.1U	11.1								
541-73-1	1,3-Dichlorobenzene	12.5U	12.5								
91-94-1	3,3'-Dichlorobenzidine	306U	306								
120-83-2	2,4-Dichlorophenol	35.4U	35.4								
84-66-2	Diethyl phthalate	20.3U	20.3								
105-67-9	2,4-Dimethylphenol	233U	233								
131-11-3	Dimethyl phthalate	14.1U	14.1								
117-84-0	Di-n-octyl phthalate	4.44U	4.44								
51-28-5	2,4-Dinitrophenol	152U	152								
606-20-2	2,6-Dinitrotoluene	26.6U	26.6								
206-44-0	Fluoranthene	6.52U	6.52								
86-73-7	Fluorene	12.9U	12.9								
118-74-1	Hexachlorobenzene	19.1U	19.1								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461317	**Client ID**	MB460715			LCS460715			LCSD460715		
Prep Batch	460715	**GCAL ID**	967412			967413			967414		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/13/2011 11:45			07/13/2011 11:45			07/13/2011 11:45		
		Analytical Date	07/19/2011 10:17			07/19/2011 15:18			07/19/2011 15:34		
		Matrix	Solid			Solid			Solid		
SW-846 8270C		**Units**	ug/Kg		**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Spike Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	20.0U	20.0								
77-47-4	Hexachlorocyclopentadiene	120U	120								
67-72-1	Hexachloroethane	15.9U	15.9								
78-59-1	Isophorone	11.6U	11.6								
193-39-5	Indeno(1,2,3-cd)pyrene	30.9U	30.9								
91-57-6	2-Methylnaphthalene	8.96U	8.96								
95-48-7	o-Cresol	11.7U	11.7								
91-20-3	Naphthalene	13.2U	13.2								
98-95-3	Nitrobenzene	18.4U	18.4								
88-75-5	2-Nitrophenol	24.5U	24.5								
86-30-6	n-Nitrosodiphenylamine	10.5U	10.5								
85-01-8	Phenanthrene	10.6U	10.6								
95-95-4	2,4,5-Trichlorophenol	22.3U	22.3								
88-06-2	2,4,6-Trichlorophenol	78.7U	78.7								
100-51-6	Benzyl alcohol	45.1U	45.1								
99-09-2	3-Nitroaniline	22.0U	22.0								
100-01-6	4-Nitroaniline	163U	163								
84-74-2	Di-n-butyl phthalate	13.1U	13.1								
88-74-4	2-Nitroaniline	24.0U	24.0								
91-58-7	2-Chloronaphthalene	10.6U	10.6								
106-47-8	4-Chloroaniline	22.2U	22.2								
1319-77-3MP	m,p-Cresol	46.6U	46.6								
534-52-1	4,6-Dinitro-2-methylphenol	150U	150								
108-95-2	Phenol	19.8U	19.8	3330	2350	71	55 - 99	2370	71	0.8	40
95-57-8	2-Chlorophenol	11.6U	11.6	3330	2340	70	54 - 97	2340	70	0	40
106-46-7	1,4-Dichlorobenzene	10.4U	10.4	3330	2800	84	45 - 88	2800	84	0	40
621-64-7	n-Nitrosodi-n-propylamine	15.1U	15.1	3330	2960	89	49 - 94	3000	90	1	40
120-82-1	1,2,4-Trichlorobenzene	11.3U	11.3	3330	2840	85	52 - 93	2830	85	0.4	40
59-50-7	4-Chloro-3-methylphenol	31.5U	31.5	3330	2300	69	59 - 102	2390	72	4	40
83-32-9	Acenaphthene	13.1U	13.1	3330	2940	88	59 - 97	2910	87	1	40
100-02-7	4-Nitrophenol	93.1U	93.1	3330	1940	58	56 - 106	1900	57	2	40
121-14-2	2,4-Dinitrotoluene	20.0U	20.0	3330	3400	102	59 - 103	3340	100	2	40

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461317	**Client ID**	MB460715	LCS460715	LCSD460715
Prep Batch	460715	**GCAL ID**	967412	967413	967414
Prep Method	3550B	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/13/2011 11:45	07/13/2011 11:45	07/13/2011 11:45
		Analytical Date	07/19/2011 10:17	07/19/2011 15:18	07/19/2011 15:34
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	126U	126	3330	1790	54	50 - 115	1720	52	4	40
129-00-0	Pyrene	15.3U	15.3	3330	3520	106	58 - 109	3590	108	2	40
Surrogate											
4165-60-0	Nitrobenzene-d5	1290	77	1670	1510	91	41 - 123	1510	91		
321-60-8	2-Fluorobiphenyl	1260	76	1670	1530	92	46 - 122	1530	92		
1718-51-0	Terphenyl-d14	1460	88	1670	1780	107	45 - 135	1850	111		
4165-62-2	Phenol-d5	2900	87	3330	3230	97	44 - 124	3240	97		
367-12-4	2-Fluorophenol	2830	85	3330	3190	96	45 - 114	3210	96		
118-79-6	2,4,6-Tribromophenol	2770	83	3330	3200	96	50 - 128	3250	98		

Analytical Batch	461317	**Client ID**	AOCU-HA24-1	AOCU-HA24-1-MS	AOCU-HA24-1-MSD
Prep Batch	460715	**GCAL ID**	21107121305	21107121306	21107121307
Prep Method	3550B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/13/2011 11:45	07/13/2011 11:45	07/13/2011 11:45
		Analytical Date	07/19/2011 11:46	07/19/2011 12:01	07/19/2011 12:16
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	11.3	3320	2210	67	52 - 93	2380	72	7	32
106-46-7	1,4-Dichlorobenzene	0.00	10.4	3320	2200	66	45 - 88	2360	72	7	36
121-14-2	2,4-Dinitrotoluene	0.00	20.0	3320	2530	76	59 - 103	2670	81	5	30
95-57-8	2-Chlorophenol	0.00	11.6	3320	1900	57	54 - 97	2000	61	5	31
59-50-7	4-Chloro-3-methylphenol	0.00	31.5	3320	1890	**57***	59 - 102	2010	61	6	27
100-02-7	4-Nitrophenol	0.00	93.1	3320	1690	**51***	56 - 106	1790	**54***	6	29
83-32-9	Acenaphthene	0.00	13.1	3320	2290	69	59 - 97	2440	74	6	29
87-86-5	Pentachlorophenol	0.00	126	3320	1630	**49***	50 - 115	1680	51	3	33
108-95-2	Phenol	0.00	19.8	3320	1830	55	55 - 99	1900	58	4	28
129-00-0	Pyrene	0.00	15.3	3320	2730	82	58 - 109	2890	88	6	33
621-64-7	n-Nitrosodi-n-propylamine	0.00	15.1	3320	2420	73	49 - 94	2580	78	6	28
Surrogate											
4165-60-0	Nitrobenzene-d5	1330	80	1660	1270	76	41 - 123	1350	82		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461317	**Client ID**	AOCU-HA24-1	AOCU-HA24-1-MS	AOCU-HA24-1-MSD
Prep Batch	460715	**GCAL ID**	21107121305	21107121306	21107121307
Prep Method	3550B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/13/2011 11:45	07/13/2011 11:45	07/13/2011 11:45
		Analytical Date	07/19/2011 11:46	07/19/2011 12:01	07/19/2011 12:16
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
321-60-8	2-Fluorobiphenyl	1280	77	1660	1260	76	46 - 122	1320	80		
1718-51-0	Terphenyl-d14	1550	93	1660	1460	88	45 - 135	1520	92		
4165-62-2	Phenol-d5	2860	86	3320	2810	85	44 - 124	2960	90		
367-12-4	2-Fluorophenol	2790	84	3320	2750	83	45 - 114	2850	86		
118-79-6	2,4,6-Tribromophenol	2620	79	3320	2750	83	50 - 128	2810	85		

General Chromatography Quality Control Summary

Analytical Batch	460895	**Client ID**	MB460687			LCS460687			LCSD460687			
Prep Batch	460687	**GCAL ID**	967323			967324			967327			
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	07/13/2011 11:30			07/13/2011 11:30			07/13/2011 11:30			
		Analytical Date	07/13/2011 19:18			07/13/2011 19:36			07/13/2011 19:54			
		Matrix	Solid			Solid			Solid			
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		1290U	1290	33300	31800	95	50 - 124	31100	93	2	40
Surrogate												
84-15-1	o-Terphenyl		1470	88	1670	1570	94	67 - 120	1520	91		

Analytical Batch	460895	**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD		
Prep Batch	460687	**GCAL ID**	21107121305			21107121306			21107121307		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/13/2011 11:30			07/13/2011 11:30			07/13/2011 11:30		
		Analytical Date	07/13/2011 22:19			07/13/2011 22:37			07/13/2011 22:55		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		607	1270	33200	30200	89	50 - 124	30400	89	0.5	40
Surrogate												
84-15-1	o-Terphenyl		1510	92	1660	1410	85	67 - 120	1420	85		

Analytical Batch	461355	**Client ID**	MB460789			LCS460789			LCSD460789		
Prep Batch	460789	**GCAL ID**	967734			967735			967736		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 08:54			07/18/2011 09:13			07/18/2011 09:32		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		1290U	1290	33300	28400	85	50 - 124	29000	87	2	40
Surrogate												
84-15-1	o-Terphenyl		1460	88	1670	1570	94	67 - 120	1550	93		

General Chromatography Quality Control Summary

Analytical Batch	461355	**Client ID**	106037IDW1			967673MS			967673MSD		
Prep Batch	460789	**GCAL ID**	21107131401			967737			967738		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 10:25			07/18/2011 10:43			07/18/2011 11:00		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-4	Diesel Range Organics	6250	1270	32800	29000	69	50 - 124	29700	71	2	40
Surrogate											
84-15-1	o-Terphenyl			1640	1520	93	67 - 120	1470	90		

General Chromatography Quality Control Summary

Analytical Batch 461188	**Client ID**	MB461188			LCS461188		
Prep Batch N/A	**GCAL ID**	969518			969519		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/18/2011 13:35			07/18/2011 12:43		
	Matrix	Solid			Solid		
SW-846 8015B Modified		**Units**	ug/Kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	650U	650	25000	22500	90	67 - 127
Surrogate							
106-39-8	Bromochlorobenzene	1290	86	1500	1370	91	47 - 164

Analytical Batch 461188	**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD				
Prep Batch N/A	**GCAL ID**	21107121305			21107121306			21107121307				
	Sample Type	SAMPLE			MS			MSD				
	Analytical Date	07/18/2011 16:41			07/18/2011 17:05			07/18/2011 17:29				
	Matrix	Solid			Solid			Solid				
SW-846 8015B Modified		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
8006-61-9	Gasoline Range Organics	0.00	524	19800	17600	89	67 - 127	18200	91	3		40
Surrogate												
106-39-8	Bromochlorobenzene	1160	96	1190	1210	102	47 - 164	1200	100			

General Chromatography Quality Control Summary

Analytical Batch	460896	**Client ID**	MB460688			LCS460688			LCSD460688		
Prep Batch	460688	**GCAL ID**	967329			967330			967331		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/13/2011 11:30			07/13/2011 11:30			07/13/2011 11:30		
		Analytical Date	07/13/2011 19:18			07/13/2011 20:13			07/13/2011 21:07		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-44	Oil Range Organics	1910U	1910	66700	51500	77	47 - 120	49100	74	5	40
Surrogate											
84-15-1	o-Terphenyl	1420	85	1670	1500	90	67 - 120	1460	88		

Analytical Batch	460896	**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD		
Prep Batch	460688	**GCAL ID**	21107121305			21107121306			21107121307		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/13/2011 11:30			07/13/2011 11:30			07/13/2011 11:30		
		Analytical Date	07/13/2011 22:19			07/13/2011 23:12			07/13/2011 23:31		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-44	Oil Range Organics	914	1880	66000	47900	71	47 - 120	50500	75	5	40
Surrogate											
84-15-1	o-Terphenyl	1450	88	1650	1360	82	67 - 120	1460	88		

Analytical Batch	461357	**Client ID**	MB460792			LCS460792			LCSD460792		
Prep Batch	460792	**GCAL ID**	967751			967752			967753		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 08:54			07/18/2011 09:49			07/18/2011 10:07		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-44	Oil Range Organics	1910U	1910	66700	55900	84	47 - 120	51300	77	9	40
Surrogate											
84-15-1	o-Terphenyl	1470	88	1670	1570	94	67 - 120	1540	92		

General Chromatography Quality Control Summary

Analytical Batch	461357	**Client ID**	106040IDW1			967678MS			967678MSD		
Prep Batch	460792	**GCAL ID**	21107131402			967754			967755		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 11:18			07/18/2011 11:36			07/18/2011 12:30		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
GCSV-00-44	Oil Range Organics	7220	1880	65600	55200	73	47 - 120	57400	76	4	40
Surrogate											
84-15-1	o-Terphenyl			1640	1570	96	67 - 120	1540	94		

Inorganics Quality Control Summary

Analytical Batch	460921	**Client ID**	MB460727		LCS460727		
Prep Batch	460727	**GCAL ID**	967456		967457		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7471B	**Prep Date**	07/13/2011 11:00		07/13/2011 11:00		
		Analytical Date	07/15/2011 12:12		07/15/2011 12:17		
		Matrix	Solid		Solid		
SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.0034U	0.0034	0.30	0.30	100	80 - 120

Analytical Batch	460921	**Client ID**	AOCU-HA24-1		AOCU-HA24-1-MS			AOCU-HA24-1-MSD				
Prep Batch	460727	**GCAL ID**	21107121305		21107121306			21107121307				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7471B	**Prep Date**	07/13/2011 11:00		07/13/2011 11:00			07/13/2011 11:00				
		Analytical Date	07/15/2011 12:19		07/15/2011 12:20			07/15/2011 12:22				
		Matrix	Solid		Solid			Solid				
SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.0078	0.0034	0.30	0.30	96	75 - 125	0.31	99	4		20

Inorganics Quality Control Summary

Analytical Batch	461170	**Client ID**	MB460726	LCS460726
Prep Batch	460726	**GCAL ID**	967454	967455
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3050B	**Prep Date**	07/13/2011 11:00	07/13/2011 11:00
		Analytical Date	07/18/2011 16:38	07/18/2011 16:44
		Matrix	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	1.26B	0.63	200	180	90	80 - 120
7440-36-0	Antimony	0.12U	0.12	20.0	19.1	95	80 - 120
7440-38-2	Arsenic	0.088U	0.088	20.0	20.1	101	80 - 120
7440-39-3	Barium	0.092B	0.011	20.0	19.1	96	80 - 120
7440-41-7	Beryllium	0.0028U	0.0028	20.0	19.1	96	80 - 120
7440-43-9	Cadmium	0.0098U	0.0098	20.0	19.7	98	80 - 120
7440-70-2	Calcium	2.51B	0.92	200	189	95	80 - 120
7440-47-3	Chromium	0.024B	0.012	20.0	19.4	97	80 - 120
7440-48-4	Cobalt	0.024B	0.022	20.0	19.4	97	80 - 120
7440-50-8	Copper	0.033B	0.033	20.0	19.7	98	80 - 120
7439-89-6	Iron	1.67B	0.91	200	198	99	80 - 120
7439-92-1	Lead	0.099B	0.072	20.0	20.1	100	80 - 120
7439-95-4	Magnesium	1.34U	1.34	200	189	95	80 - 120
7439-96-5	Manganese	0.039U	0.039	20.0	19.1	95	80 - 120
7440-02-0	Nickel	0.031U	0.031	20.0	19.7	98	80 - 120
7440-09-7	Potassium	9.89B	1.82	400	388	97	80 - 120
7782-49-2	Selenium	0.19U	0.19	20.0	20.1	101	80 - 120
7440-22-4	Silver	0.055B	0.035	20.0	18.8	94	80 - 120
7440-23-5	Sodium	3.51U	3.51	800	768	96	80 - 120
7440-28-0	Thallium	0.10U	0.10	20.0	18.8	94	80 - 120
7440-62-2	Vanadium	0.11B	0.050	20.0	19.6	98	80 - 120
7440-66-6	Zinc	0.33U	0.33	20.0	19.4	97	80 - 120

Inorganics Quality Control Summary

Analytical Batch	461170	**Client ID**	AOCU-HA24-1	AOCU-HA24-1-MS	AOCU-HA24-1-MSD
Prep Batch	460726	**GCAL ID**	21107121305	21107121306	21107121307
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/13/2011 11:00	07/13/2011 11:00	07/13/2011 11:00
		Analytical Date	07/18/2011 21:29	07/18/2011 21:35	07/18/2011 21:42
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	9300	1.26	200	12800	**1730***	75 - 125	13100	**1920***	3	20
7440-36-0	Antimony	0.13	0.24	20.0	4.37	**21***	75 - 125	3.89	**19***	12	20
7440-38-2	Arsenic	2.46	0.18	20.0	24.1	108	75 - 125	23.8	107	1	20
7440-39-3	Barium	72.2	0.022	20.0	92.8	103	75 - 125	90.5	92	3	20
7440-41-7	Beryllium	0.86	0.0055	20.0	21.0	101	75 - 125	20.5	98	2	20
7440-43-9	Cadmium	0.27	0.020	20.0	19.2	94	75 - 125	19.0	93	1	20
7440-70-2	Calcium	89900	1.84	200	87800	**-1000***	75 - 125	89000	**-400***	1	20
7440-47-3	Chromium	12.0	0.023	20.0	33.3	106	75 - 125	32.5	102	3	20
7440-48-4	Cobalt	4.89	0.044	20.0	23.2	92	75 - 125	22.8	90	2	20
7440-50-8	Copper	9.81	0.066	20.0	29.1	96	75 - 125	28.2	92	3	20
7439-89-6	Iron	12200	1.81	200	13700	**769***	75 - 125	14000	**923***	2	20
7439-92-1	Lead	9.05	0.14	20.0	27.5	93	75 - 125	27.5	92	0.2	20
7439-95-4	Magnesium	10900	2.68	200	11800	**446***	75 - 125	12300	**668***	4	20
7439-96-5	Manganese	216	0.078	20.0	235	97	75 - 125	228	**58***	3	20
7440-02-0	Nickel	12.0	0.063	20.0	31.1	96	75 - 125	30.6	93	2	20
7440-09-7	Potassium	2670	3.64	400	3950	**319***	75 - 125	4100	**356***	4	20
7782-49-2	Selenium	0.0	0.38	20.0	19.9	100	75 - 125	20.3	102	2	20
7440-22-4	Silver	0.0	0.070	20.0	19.6	98	75 - 125	19.2	96	2	20
7440-28-0	Thallium	0.0	0.20	20.0	17.3	86	75 - 125	17.0	85	1	20
7440-62-2	Vanadium	21.6	0.099	20.0	43.2	108	75 - 125	41.8	101	3	20
7440-66-6	Zinc	40.5	0.66	20.0	64.0	118	75 - 125	63.5	115	0.9	20

Analytical Batch	461307	**Client ID**	AOCU-HA24-1	AOCU-HA24-1-MS	AOCU-HA24-1-MSD
Prep Batch	460726	**GCAL ID**	21107121305	21107121306	21107121307
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/13/2011 11:00	07/13/2011 11:00	07/13/2011 11:00
		Analytical Date	07/19/2011 13:39	07/19/2011 13:47	07/19/2011 13:54
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	14600	7.02	800	15400	101	75 - 125	15100	**61***	2	20

General Chemistry Quality Control Summary

Analytical Batch 461029	**Client ID**	MB461028			LCS461028		
Prep Batch 461028	**GCAL ID**	968908			968909		
Prep Method EPA 353.2	**Sample Type**	Method Blank			LCS		
	Prep Date	07/14/2011 14:00			07/14/2011 14:00		
	Analytical Date	07/15/2011 15:43			07/15/2011 15:44		
	Matrix	Solid			Solid		
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.026U	0.026	5.00	5.00	100	90 - 110

Analytical Batch 461029	**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD			
Prep Batch 461028	**GCAL ID**	21107121305			21107121306			21107121307			
Prep Method EPA 353.2	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	07/14/2011 14:00			07/14/2011 14:00			07/14/2011 14:00			
	Analytical Date	07/15/2011 17:18			07/15/2011 17:20			07/15/2011 17:21			
	Matrix	Solid			Solid			Solid			
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		29.6	0.260	50.0	80.3	101	90 - 110	80.3	101	0.01	25

Analytical Batch 461029	**Client ID**	AOCU-HA50-2			967700MS			967700MSD			
Prep Batch 461028	**GCAL ID**	21107131607			968910			968911			
Prep Method EPA 353.2	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	07/14/2011 14:00			07/14/2011 14:00			07/14/2011 14:00			
	Analytical Date	07/15/2011 17:10			07/15/2011 17:11			07/15/2011 17:12			
	Matrix	Solid			Solid			Solid			
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		9.15	0.130	25.0	34.0	100	90 - 110	33.9	99	0.3	25

General Chemistry Quality Control Summary

Analytical Batch 460756	**Client ID**	AOCU-HA41-3		967321DUP		
Prep Batch N/A	**GCAL ID**	21107121310		968136		
	Sample Type	SAMPLE		DUP		
	Analytical Date	07/13/2011 11:15		07/13/2011 11:15		
	Matrix	Solid		Solid		
SM 2540G Dry Weight		**Units**	%	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
WET-037 Total Moisture		29.38	0.010	28.4	3.3	25

DHL ANALYTICAL

August 04, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1107168

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 7 sample(s) on 7/21/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1107168

Chain of Custody Record

Submitted by		Bill to	
Client:	Gulf Coast Analytical Labs	Client:	Gulf Coast Analytical Labs
Address:	7979 GSRI Avenue Baton Rouge, LA 70820	Address:	7979 GSRI Avenue Baton Rouge, LA 70820
Contact:	Dana Merrill	Contact:	Dana Merrill
Phone:	(225)769-4900	Phone:	(225)769-4900
Fax:	(225)767-5717	Fax:	(225)767-5717

P.O. Number: 11-0682

Project Name/Number: 4771

Sampled By:

Analysis Requested: PERCHLORATE (6860)

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860)	Remarks:	Lab ID
01	S	7/11/2011	8:50		X	21107121301		1	X	AOCU-HA20-2	
02	S	7/11/2011	9:10		X	21107121303		1	X	AOCU-HA22-2	
03	S	7/11/2011	9:10		X	21107121304		1	X	AOCU-HA22-2-A	
04	S	7/11/2011	9:45		X	21107121305		1	X	AOCU-HA24-1	
05	S	7/11/2011	9:45		X	21107121306		1	X	AOCU-HA-24-1-MS	
06	S	7/11/2011	9:45		X	21107121307		1	X	AOCU-HA-24-1-MSD	
07	S	7/11/2011	10:45		X	21107121308		1	X	AOCU-HA26-1.5	
08	S	7/11/2011	11:05		X	21107121309		1	X	AOCU-HA28-2	
09	S	7/11/2011	11:25		X	21107121310		1	X	AOCU-HA41-3	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	7/20/11	1700
[signature]	[signature]	7/21/11	1010

Note: Receiving temp 2.5° Ice present no custody seals

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: DPLA (225) 768-4500
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 20JUL11
ACTWGT: 65.0 LB MAN
CAD: 664090/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388-8222

RT 512 1 C

6322
07.21

FZ

FedEx Express

E

TRK# 4932 5568 6322

THU - 21 JUL A1
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

Part # 156148-434 NRT 02/07

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB | Date Received: 7/21/2011

Work Order Number 1107168 | Received by JB

Checklist completed by: [signature] 7/21/11 (Signature / Date) Reviewed by SS 7-21-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

08/05/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 8/4/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1107168
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?			X		
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate | Date: 8/4/2011

Reviewer Name: Angie O'Donnell | Laboratory Work Order:1107168

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
1107168-03A		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst — Date: 8/3/11

2nd Level Review — Date: 8/3/11

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/28/2011 9:21
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

8/12/11 8/13/11

Internal Standard Summary

Sequence Name:	110728_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	633
Low Limit (50%)	317
High Limit (150%)	950

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110728	1987.605
LCVL1-110728	1623.803
ICS-110728	1674.810
LRB1-110728	2042.303
LCS-47445	1737.788
MB-47445	1798.954
1107115-23A	1531.744
1107115-23A	1264.770
1107168-01A	1660.174
1107168-02A	1687.163
1107168-03A	1761.626
1107168-04A	1672.380
1107168-05A	1647.878
1107168-06A	1637.325
1107168-07A	1698.739
1107168-04AMS	1484.539

8/3/14

8/3/14

1107168-04AMSD	1629.799
CCV1-110728	1465.324
LCVL2-110728	1598.693
LRB2-110728	1703.970
LCS-47446	1745.134
MB-47446	1862.168
1107169-01A	1856.633
1107169-02A	1918.114
1107169-03A	1785.668
1107169-04A	1896.413
1107169-05A	2920.568
1107169-06A	2903.445
1107169-07A	2832.597
1107169-08A	2707.413
1107169-09A	2276.764
1107170-03A	2192.373
CCV2-110728	1754.324
LCVL3-110728	2175.384
LRB3-110728	1459.588
1107170-04A	689.510
1107171-02A	1849.075
1107171-03A	2110.881
1107171-04A	1469.902
1107171-05A	1753.168
1107171-06A	1661.917
1107171-07A	1237.265
1107171-08A	1210.517
1107171-09A	1322.133
1107171-03AMS	1108.983
1107171-03AMSD	1172.345
CCV3-110728	1102.353
LCVL4-110728	1274.465
LRB4-110728	1408.374

8/3/11
8

8/3/11

CLIENT:	GCAL LAB	
Project:	DoD Perchlorate	**CASE NARRATIVE**
Lab Order:	1107168	

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method E332.0 or SW6860 - Perchlorate Analysis (Parameter is ELAP Accredited but not NELAC Certified)
Method D2216 - Percent Moisture

Exception Report R1-01

The samples were received on and log-in performed on 7/21/2011. A total of 7 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Perchlorate Analysis, the recovery of Matrix Spike (1107168-04 MS) was below the method control limits. This is flagged accordingly in the QC Summary Report. The LCS was within method control limits. The sample selected for the matrix spike and matrix spike duplicate was from this work order. No further corrective actions were taken.

Exception Report S5-02

For Perchlorate Analysis, some samples and/or standards were manually integrated. Please refer to the table on page 9 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

Communication via email between Dana Merrill of GCAL and John DuPont of DHL on 6/28/2011 and 7/20/2011, regarding project specifications have been files in this workorder folder.

This sample delivery group arrived at DHL Analytical 7/21/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107168

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1107168-01	21107121301		07/11/11 08:50 AM	07/21/11
1107168-02	21107121303		07/11/11 09:10 AM	07/21/11
1107168-03	21107121304		07/11/11 09:10 AM	07/21/11
1107168-04	21107121305		07/11/11 09:45 AM	07/21/11
1107168-05	21107121308		07/11/11 10:45 AM	07/21/11
1107168-06	21107121309		07/11/11 11:05 AM	07/21/11
1107168-07	21107121310		07/11/11 11:25 AM	07/21/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107168

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1107168-01A	21107121301	07/11/11 08:50 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121301	07/11/11 08:50 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-02A	21107121303	07/11/11 09:10 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121303	07/11/11 09:10 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-03A	21107121304	07/11/11 09:10 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121304	07/11/11 09:10 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-04A	21107121305	07/11/11 09:45 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121305	07/11/11 09:45 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-05A	21107121308	07/11/11 10:45 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121308	07/11/11 10:45 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-06A	21107121309	07/11/11 11:05 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121309	07/11/11 11:05 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107168-07A	21107121310	07/11/11 11:25 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 08:50 AM	47445
	21107121310	07/11/11 11:25 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107168

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1107168-01A	21107121301	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121301	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 01:04 PM	ICMS_110728A
1107168-02A	21107121303	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121303	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 01:21 PM	ICMS_110728A
1107168-03A	21107121304	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121304	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 01:39 PM	ICMS_110728A
1107168-04A	21107121305	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121305	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 01:57 PM	ICMS_110728A
1107168-05A	21107121308	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121308	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 02:18 PM	ICMS_110728A
1107168-06A	21107121309	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121309	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 02:35 PM	ICMS_110728A
1107168-07A	21107121310	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107121310	Soil	SW6860	Perchlorate - Soil	47445	1	07/28/11 02:53 PM	ICMS_110728A

DHL Analytical

Date: 08/04/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121301
Lab ID: 1107168-01
Collection Date: 07/11/11 08:50 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00827	0.00141	0.00706	N	mg/Kg-dry	1	07/28/11 01:04 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	30.0	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121303
Lab ID: 1107168-02
Collection Date: 07/11/11 09:10 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0141	0.00141	0.00706	N	mg/Kg-dry	1	07/28/11 01:21 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	30.4	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121304
Lab ID: 1107168-03
Collection Date: 07/11/11 09:10 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0107	0.00138	0.00690	N	mg/Kg-dry	1	07/28/11 01:39 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	28.4	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121305
Lab ID: 1107168-04
Collection Date: 07/11/11 09:45 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0482	0.00138	0.00690	N	mg/Kg-dry	1	07/28/11 01:57 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	29.2	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121308
Lab ID: 1107168-05
Collection Date: 07/11/11 10:45 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0129	0.00140	0.00702	N	mg/Kg-dry	1	07/28/11 02:18 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	29.7	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121309
Lab ID: 1107168-06
Collection Date: 07/11/11 11:05 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00150	0.00150	0.00749	NU	mg/Kg-dry	1	07/28/11 02:35 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	34.0	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107168

Client Sample ID: 21107121310
Lab ID: 1107168-07
Collection Date: 07/11/11 11:25 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00154	0.00154	0.00772	NU	mg/Kg-dry	1	07/28/11 02:53 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	36.0	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1107168
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	LCS-47445	Batch ID:	47445		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 11:35 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00490	0.00500	0.00450	0	109	85	115			N

Sample ID:	MB-47445	Batch ID:	47445		TestNo:		SW6860		Units:		mg/Kg
SampType:	MBLK	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 11:53 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00100	0.00500								NU

Sample ID:	1107168-04AMS	Batch ID:	47445		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 03:11 PM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0498	0.00692	0.00623	0.0482	25.0	75	125			SN

Sample ID:	1107168-04AMSD	Batch ID:	47445		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 03:29 PM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0533	0.00696	0.00626	0.0482	81.2	75	125	6.85	20	N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107168
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	ICV1-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	ICV	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 09:21 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00195	0.00500	0.00200	0	97.3	85	115			N

Sample ID:	LCVL1-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 09:38 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000208	0.00500	0.000200	0	104	70	130			N

Sample ID:	ICS-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	ICS	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000339	0.00500	0.000300	0	113	70	130			N

Sample ID:	CCV1-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 03:46 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00508	0.00500	0.00500	0	102	80	120			N

Sample ID:	LCVL2-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 04:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000252	0.00500	0.000200	0	126	70	130			N

Sample ID:	CCV2-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 10:19 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00486	0.00500	0.00500	0	97.2	80	120			N

Sample ID:	LCVL3-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 10:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000217	0.00500	0.000200	0	109	70	130			N

Sample ID:	CCV3-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 02:34 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00520	0.00500	0.00500	0	104	80	120			N

Sample ID:	LCVL4-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 03:08 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000202	0.00500	0.000200	0	101	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107168
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_110726C

Sample ID:	1107168-04ADUP	Batch ID:	47412	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_110726C	Analysis Date:	07/27/11 08:40 AM	Prep Date:	07/26/11

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	28.5	0	0	29.21				2.47	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 08/04/11

Lab Order: 1107168
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110728A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110728	-----	SW6860	R56137	1	07/28/11 09:21 AM	
LCVL1-110728	-----	SW6860	R56137	1	07/28/11 09:38 AM	
ICS-110728	-----	SW6860	R56137	1	07/28/11 10:57 AM	
LRB1-110728	-----	SW6860	R56137	1	07/28/11 11:15 AM	
LCS-47445	-----	SW6860	47445	1	07/28/11 11:35 AM	07/28/11
MB-47445	-----	SW6860	47445	1	07/28/11 11:53 AM	07/28/11
1107168-01A	21107121301	SW6860	47445	1	07/28/11 01:04 PM	07/28/11
1107168-02A	21107121303	SW6860	47445	1	07/28/11 01:21 PM	07/28/11
1107168-03A	21107121304	SW6860	47445	1	07/28/11 01:39 PM	07/28/11
1107168-04A	21107121305	SW6860	47445	1	07/28/11 01:57 PM	07/28/11
1107168-05A	21107121308	SW6860	47445	1	07/28/11 02:18 PM	07/28/11
1107168-06A	21107121309	SW6860	47445	1	07/28/11 02:35 PM	07/28/11
1107168-07A	21107121310	SW6860	47445	1	07/28/11 02:53 PM	07/28/11
1107168-04AMS	21107121305MS	SW6860	47445	1	07/28/11 03:11 PM	07/28/11
1107168-04AMSD	21107121305MSD	SW6860	47445	1	07/28/11 03:29 PM	07/28/11
CCV1-110728	-----	SW6860	R56137	1	07/28/11 03:46 PM	
LCVL2-110728	-----	SW6860	R56137	1	07/28/11 04:04 PM	
LRB2-110728	-----	SW6860	R56137	1	07/28/11 04:39 PM	
CCV2-110728	-----	SW6860	R56137	1	07/29/11 10:19 AM	
LCVL3-110728	-----	SW6860	R56137	1	07/29/11 10:53 AM	
LRB3-110728	-----	SW6860	R56137	1	07/29/11 11:10 AM	
CCV3-110728	-----	SW6860	R56137	1	07/29/11 02:34 PM	
LCVL4-110728	-----	SW6860	R56137	1	07/29/11 03:08 PM	
LRB4-110728	-----	SW6860	R56137	1	07/29/11 03:25 PM	

DHL Analytical

Date: 08/04/11

Lab Order: 1107168
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: PMOIST_110726C

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1107168-01A	21107121301	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-02A	21107121303	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-03A	21107121304	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-04A	21107121305	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-04ADUP	21107121305PD9	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-05A	21107121308	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-06A	21107121309	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107168-07A	21107121310	D2216	47412	1	07/27/11 08:40 AM	07/26/11

NATIONVIEW

Nationview/4771/211071213/7/19/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 071111-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-HA20-2	AOCU-HA20	11072011	0850	1-2	N	1	SO	3		X		X	X	X	X										1	1
AOCU-HA22-2	AOCU-HA22	11072011	0910	1-2	N	1	SO	3		X		X	X	X	X										1	3
AOCU-HA22-2-A	AOCU-HA22	11072011	0910	1-2	FD	1	SO	3		X		X	X	X	X										1	4
AOCU-HA24-1	AOCU-HA24	11072011	0945	0-1	N	1	SO	3		X		X	X	X	X										1	5
AOCU-HA24-1-MS	AOCU-HA24	11072011	0945	0-1	MS	1	SO	3		X		X	X	X	X										1	6
AOCU-HA24-1-MSD	AOCU-HA24	11072011	0945	0-1	SD	1	SO	3		X		X	X	X	X										1	7
AOCU-HA26-1.5	AOCU-HA26	11072011	1045	0.5-1.5	N	1	SO	3		X		X	X	X	X										1	8
AOCU-HA28-2	AOCU-HA28	11072011	1105	1-2	N	1	SO	3		X		X	X	X	X										1	9
AOCU-HA41-3	AOCU-HA41	11072011	1125	2-3	N	1	SO	3		X		X	X	X	X										1	10
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	7/11/11	1500	FedEx		
2.	FedEx	7/12/11	925	[illegible]	7/12/11	925
3.	7972 8780 6250					

5.2°C

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7972 8780 6250

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

NATIONVIEW

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 071111-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-HA20-2	AOCU-HA20	11072011	0850	1-2	N	1	SO	5	X		X					X									2	1
AOCU-HA22-2	AOCU-HA22	11072011	0910	1-2	N	1	SO	5	X		X					X									2	2
AOCU-HA22-2-A	AOCU-HA22	11072011	0910	1-2	FD	1	SO	5	X		X					X									2	3
AOCU-HA24-1	AOCU-HA24	11072011	0945	0-1	N	1	SO	5	X		X					X									2	4
AOCU-HA24-1-MS	AOCU-HA24	11072011	0945	0-1	MS	1	SO	5	X		X					X									2	5
AOCU-HA24-1-MSD	AOCU-HA24	11072011	0945	0-1	SD	1	SO	5	X		X					X									2	6
AOCU-HA26-1.5	AOCU-HA26	11072011	1045	0.5-1.5	N	1	SO	5	X		X					X									2	7
AOCU-HA28-2	AOCU-HA28	11072011	1105	1-2	N	1	SO	5	X		X					X									2	8
AOCU-HA41-3	AOCU-HA41	11072011	1125	2-3	N	1	SO	5	X		X					X									2	9
Trip Blank		11072011	0850	-	TB	1	WQ	3	X																2	10
				-																						11

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	JH Moore	7/11/11	1500	Fed Ex		
2.	Fed Ex	7/12/11	925	[illegible]	7/12/11	925
3.	79728780 0685					

4.6°C

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Federal Express

Analytical Lab: Gulf Coast Analytical Laboratories

Lab Recipient:

Shipped No.:

Airbill Number: 7972 8780 0685

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211071213

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 2 - Soil

Received by: Carstens, Jennifer K.

Received Date/Time: 7/12/2011 9:25:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 2

Cooler tracking numbers(s): 7972 8780 6250, 7972 8780 0685

Cooler temperature(s): 5.2, 4.6

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 08/10/2011

GCAL Report 211071316

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project AOC-U RFI Invest / Holloman

CASE NARRATIVE

Client: NationView, LLC **Report:** 211071316

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

Pentachloroethane exhibited a %drift value greater than a +20 in the CCV associated with analytical batch 461425. Pentachloroethane was not detected during sample analysis.

Trichloroethene, carbon disulfide,1,1,2-trichlorotrifluoroethane,acrolein,hexane,cyclohexane,bromochloromethane,carbon tetrachloride, 1,1-dichloropropane, and methyl cyclohexane exhibited %drift values of +22,+22,+22,+46,+39,+29,+24,+21,+23, and +29. These compounds were not detected during sample analysis.

In the SW-846 8260B analysis for analytical batch 461062, the LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane, Dibromomethane, cis-1,2-Dichloroethene, n-Hexane and Ethyl methacrylate. The LCS/LCSD RPD is above the control limit for Acetonitrile. These compounds were not detected in the associated samples. The % Drift is outside ±20% for Pentachloroethane in the CCV. This compound was not detected in the associated samples.

In the SW-846 8260B analysis for analytical batch 461363, the LCS and/or LCSD recoveries are above the upper control limit for Pentachloroethane. This compound was not detected in the associated samples. Chloroform was detected at an estimated concentration in the method blank. This is probable laboratory contamination.

In the SW-846 8260B analysis for analytical batch 461425, the LCS and/or LCSD recoveries are above the upper control limit for Pentachloroethane. The LCS/LCSD RPD is above the control limit for Pentachloroethane, tert-Butylbenzene and Acetonitrile. These compounds were not detected in the associated samples. Chloroform, Acetone, 2-Butanone, o-Xylene, n-Hexane, and Benzene were detected at estimated concentrations in the method blank. This is probable laboratory contamination.

VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8015B GRO analysis, all samples were analyzed at a 50 (methanol extract) dilution. The reporting limit is at or below the required limit at this dilution.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for sample 21107131601 (AOCU-HA12-2), 21107131602 (AOCU-HA35-3), 21107131604 (AOCU-HA45-1.5) 21107131606 (AOCU-HA47-2), 21107131607 (AOCU-HA50-2), 21107131608 (AOCU-HA56-1), and 21107131609 (AOCU-HA57-1). This is reflected in the elevated detection limits.

In the SW-846 6010B analysis for prep batch 460809, the MS and/or MSD recovery is outside the control limits for Manganese, Antimony, and Potassium. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference or the element is non-

homogeneous in the sample matrix. A post-digestion spike was performed with a recovery of 104% for Antimony, 94% for Manganese, and 120% for Potassium. The MS/MSD recoveries are not applicable for Aluminum, Calcium, Magnesium, Iron, and Sodium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B analysis for prep batch 460814, Barium was detected at a concentration above the reporting limit in the method blank. Barium was detected at an estimated concentration in the associated sample.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21107131607 (AOCU-HA50-2), 21107131608 (AOCU-HA56-1), and 21107131609 (AOCU-HA57-1) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211071316

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	AOCU-HA12-2	Solid	07/11/2011 13:30	07/13/2011 08:50
21107131602	AOCU-HA35-3	Solid	07/11/2011 14:30	07/13/2011 08:50
21107131603	AOCU-HA43-2	Solid	07/12/2011 08:05	07/13/2011 08:50
21107131604	AOCU-HA45-1.5	Solid	07/12/2011 08:30	07/13/2011 08:50
21107131605	AOCU-HA45-1.5-A	Solid	07/12/2011 08:30	07/13/2011 08:50
21107131606	AOCU-HA47-2	Solid	07/12/2011 09:00	07/13/2011 08:50
21107131607	AOCU-HA50-2	Solid	07/12/2011 09:20	07/13/2011 08:50
21107131608	AOCU-HA56-1	Solid	07/12/2011 10:35	07/13/2011 08:50
21107131609	AOCU-HA57-1	Solid	07/12/2011 10:55	07/13/2011 08:50
21107131610	AOCU-EB01	Water	07/11/2011 15:45	07/13/2011 08:50
21107131611	TRIP BLANK	Water	07/11/2011 13:30	07/13/2011 08:50

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.016B	0.018	0.0052	mg/kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	4100J	19900	2860	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	2820	60.9	4.80	mg/kg
7440-36-0	Antimony	1.22B	18.3	0.90	mg/kg
7440-38-2	Arsenic	1.05B	12.2	0.67	mg/kg
7440-39-3	Barium	31.8	3.04	0.083	mg/kg
7440-41-7	Beryllium	0.041B	1.52	0.021	mg/kg
7440-43-9	Cadmium	0.60B	1.52	0.074	mg/kg
7440-70-2	Calcium	252000	228	7.01	mg/kg
7440-47-3	Chromium	2.69B	3.04	0.088	mg/kg
7440-48-4	Cobalt	0.79B	3.04	0.17	mg/kg
7440-50-8	Copper	7.33	3.04	0.25	mg/kg
7439-89-6	Iron	1960	30.4	6.89	mg/kg
7439-92-1	Lead	1.40B	4.56	0.54	mg/kg
7439-95-4	Magnesium	20400	30.4	10.2	mg/kg
7439-96-5	Manganese	59.4	4.56	0.30	mg/kg
7440-02-0	Nickel	1.29B	12.2	0.24	mg/kg
7440-09-7	Potassium	1100	152	13.8	mg/kg
7440-22-4	Silver	0.28B	3.04	0.27	mg/kg
7440-62-2	Vanadium	16.4	6.09	0.38	mg/kg
7440-66-6	Zinc	6.80	6.09	2.52	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	17100	304	26.7	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	3.83J	5.99	0.761	ug/Kg
67-64-1	Acetone	14.4J	29.9	1.29	ug/Kg
71-43-2	Benzene	1.27J	5.99	0.127	ug/Kg
67-66-3	Chloroform	0.878J	5.99	0.270	ug/Kg
108-88-3	Toluene	0.977J	5.99	0.316	ug/Kg
110-54-3	n-Hexane	1.18J	5.99	0.386	ug/Kg
95-47-6	o-Xylene	0.962J	5.99	0.173	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	3.28	0.761	0.040	mg/kg-N

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
87-86-5	Pentachlorophenol	218J	2500	191	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	26.6	5.39	0.684	ug/Kg
67-64-1	Acetone	101	26.9	1.16	ug/Kg
71-43-2	Benzene	2.14J	5.39	0.114	ug/Kg
67-66-3	Chloroform	0.906J	5.39	0.242	ug/Kg
108-88-3	Toluene	1.53J	5.39	0.284	ug/Kg
110-54-3	n-Hexane	2.10J	5.39	0.347	ug/Kg
95-47-6	o-Xylene	0.919J	5.39	0.155	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	3120J	18400	2640	ug/Kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.018	0.016	0.0047	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	7830	22.1	1.74	mg/kg
7440-36-0	Antimony	0.64B	6.63	0.33	mg/kg
7440-38-2	Arsenic	2.77B	4.42	0.24	mg/kg
7440-39-3	Barium	65.1	1.10	0.030	mg/kg
7440-41-7	Beryllium	0.31B	0.55	0.0077	mg/kg
7440-43-9	Cadmium	0.53B	0.55	0.027	mg/kg
7440-70-2	Calcium	158000	82.9	2.54	mg/kg
7440-47-3	Chromium	6.66	1.10	0.032	mg/kg
7440-48-4	Cobalt	2.24	1.10	0.060	mg/kg
7440-50-8	Copper	6.61	1.10	0.091	mg/kg
7439-89-6	Iron	6300	11.0	2.50	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	3.24	1.66	0.20	mg/kg
7439-95-4	Magnesium	36000	11.0	3.70	mg/kg
7439-96-5	Manganese	187	1.66	0.11	mg/kg
7440-02-0	Nickel	5.11	4.42	0.087	mg/kg
7440-09-7	Potassium	2140	55.2	5.03	mg/kg
7440-62-2	Vanadium	12.5	2.21	0.14	mg/kg
7440-66-6	Zinc	21.6	2.21	0.91	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	14200	110	9.69	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

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CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	0.189J	5.56	0.132	ug/Kg
78-93-3	2-Butanone	11.8	5.56	0.706	ug/Kg
67-64-1	Acetone	30.3	27.8	1.20	ug/Kg
71-43-2	Benzene	6.45	5.56	0.118	ug/Kg
67-66-3	Chloroform	0.712J	5.56	0.250	ug/Kg
108-88-3	Toluene	5.25J	5.56	0.294	ug/Kg
136777-61-2	m,p-Xylene	0.987J	5.56	0.395	ug/Kg
110-54-3	n-Hexane	3.53J	5.56	0.358	ug/Kg
95-47-6	o-Xylene	1.39J	5.56	0.160	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	7430J	18700	2690	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	13200	11.4	0.90	mg/kg
7440-38-2	Arsenic	2.92	2.29	0.13	mg/kg
7440-39-3	Barium	118	0.57	0.016	mg/kg
7440-41-7	Beryllium	1.43	0.29	0.0040	mg/kg
7440-43-9	Cadmium	0.44	0.29	0.014	mg/kg
7440-70-2	Calcium	95000	42.9	1.32	mg/kg
7440-47-3	Chromium	17.3	0.57	0.017	mg/kg
7440-48-4	Cobalt	8.14	0.57	0.031	mg/kg
7440-50-8	Copper	13.9	0.57	0.047	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	16700	5.72	1.30	mg/kg
7439-92-1	Lead	12.9	0.86	0.10	mg/kg
7439-95-4	Magnesium	17000	5.72	1.92	mg/kg
7439-96-5	Manganese	255	0.86	0.056	mg/kg
7440-02-0	Nickel	18.8	2.29	0.045	mg/kg
7440-09-7	Potassium	3970	28.6	2.60	mg/kg
7782-49-2	Selenium	0.53B	2.29	0.27	mg/kg
7440-28-0	Thallium	0.30B	1.14	0.14	mg/kg
7440-62-2	Vanadium	31.7	1.14	0.071	mg/kg
7440-66-6	Zinc	63.8	1.14	0.47	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	18100	57.2	5.02	mg/kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.034	0.017	0.0049	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.029	0.017	0.0048	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	11.9	0.712	0.037	mg/kg-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	0.184J	5.35	0.127	ug/Kg
78-93-3	2-Butanone	6.03	5.35	0.680	ug/Kg
67-64-1	Acetone	12.8J	26.8	1.16	ug/Kg
71-43-2	Benzene	6.46	5.35	0.113	ug/Kg
67-66-3	Chloroform	0.776J	5.35	0.241	ug/Kg
108-88-3	Toluene	4.82J	5.35	0.283	ug/Kg
136777-61-2	m,p-Xylene	1.10J	5.35	0.380	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

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CAS#	Parameter	Result	RDL	MDL	Units
110-54-3	n-Hexane	3.69J	5.35	0.345	ug/Kg
95-47-6	o-Xylene	1.38J	5.35	0.154	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	4750J	18600	2670	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	10700	22.8	1.80	mg/kg
7440-38-2	Arsenic	3.61B	4.55	0.25	mg/kg
7440-39-3	Barium	94.2	1.14	0.031	mg/kg
7440-41-7	Beryllium	0.96	0.57	0.0079	mg/kg
7440-43-9	Cadmium	0.28B	0.57	0.028	mg/kg
7440-70-2	Calcium	120000	85.4	2.62	mg/kg
7440-47-3	Chromium	13.8	1.14	0.033	mg/kg
7440-48-4	Cobalt	5.62	1.14	0.062	mg/kg
7440-50-8	Copper	13.1	1.14	0.093	mg/kg
7439-89-6	Iron	13400	11.4	2.58	mg/kg
7439-92-1	Lead	10.3	1.71	0.20	mg/kg
7439-95-4	Magnesium	15100	11.4	3.81	mg/kg
7439-96-5	Manganese	185	1.71	0.11	mg/kg
7440-02-0	Nickel	14.0	4.55	0.089	mg/kg
7440-09-7	Potassium	3040	56.9	5.18	mg/kg
7440-28-0	Thallium	0.29B	2.28	0.28	mg/kg
7440-62-2	Vanadium	25.7	2.28	0.14	mg/kg
7440-66-6	Zinc	46.8	2.28	0.94	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	16600	114	9.99	mg/kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	2780J	5600	1810	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	3040J	18700	2690	ug/Kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	0.135J	5.60	0.133	ug/Kg
78-93-3	2-Butanone	6.63	5.60	0.712	ug/Kg
67-64-1	Acetone	10.6J	28.0	1.21	ug/Kg
71-43-2	Benzene	6.78	5.60	0.119	ug/Kg
67-66-3	Chloroform	0.804J	5.60	0.252	ug/Kg
108-88-3	Toluene	5.08J	5.60	0.296	ug/Kg
136777-61-2	m,p-Xylene	1.01J	5.60	0.398	ug/Kg
110-54-3	n-Hexane	4.13J	5.60	0.361	ug/Kg
95-47-6	o-Xylene	1.43J	5.60	0.161	ug/Kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.029	0.017	0.0049	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	10.1	0.716	0.037	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	14900	11.4	0.90	mg/kg
7440-38-2	Arsenic	3.65	2.27	0.13	mg/kg
7440-39-3	Barium	108	0.57	0.015	mg/kg
7440-41-7	Beryllium	1.20	0.28	0.0039	mg/kg
7440-43-9	Cadmium	0.44	0.28	0.014	mg/kg
7440-70-2	Calcium	97000	42.6	1.31	mg/kg
7440-47-3	Chromium	17.9	0.57	0.016	mg/kg
7440-48-4	Cobalt	7.26	0.57	0.031	mg/kg
7440-50-8	Copper	12.7	0.57	0.047	mg/kg
7439-89-6	Iron	16700	5.68	1.29	mg/kg
7439-92-1	Lead	11.3	0.85	0.10	mg/kg
7439-95-4	Magnesium	16700	5.68	1.90	mg/kg
7439-96-5	Manganese	327	0.85	0.055	mg/kg
7440-02-0	Nickel	18.0	2.27	0.045	mg/kg
7440-09-7	Potassium	4150	28.4	2.59	mg/kg
7782-49-2	Selenium	0.31B	2.27	0.27	mg/kg
7440-28-0	Thallium	0.35B	1.14	0.14	mg/kg
7440-62-2	Vanadium	28.3	1.14	0.070	mg/kg
7440-66-6	Zinc	58.1	1.14	0.47	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	16400	56.8	4.99	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.022	0.017	0.0048	mg/kg

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CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	6440	22.6	1.78	mg/kg
7440-38-2	Arsenic	2.00B	4.52	0.25	mg/kg
7440-39-3	Barium	53.3	1.13	0.031	mg/kg
7440-41-7	Beryllium	0.46B	0.57	0.0078	mg/kg
7440-43-9	Cadmium	0.34B	0.57	0.028	mg/kg
7440-70-2	Calcium	181000	84.8	2.60	mg/kg
7440-47-3	Chromium	7.85	1.13	0.033	mg/kg
7440-48-4	Cobalt	2.97	1.13	0.062	mg/kg
7440-50-8	Copper	7.28	1.13	0.093	mg/kg
7439-89-6	Iron	6920	11.3	2.56	mg/kg
7439-92-1	Lead	5.50	1.70	0.20	mg/kg
7439-95-4	Magnesium	10600	11.3	3.79	mg/kg
7439-96-5	Manganese	141	1.70	0.11	mg/kg
7440-02-0	Nickel	7.25	4.52	0.089	mg/kg
7440-09-7	Potassium	2040	56.5	5.14	mg/kg
7440-62-2	Vanadium	14.7	2.26	0.14	mg/kg
7440-66-6	Zinc	26.0	2.26	0.94	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	17100	113	9.92	mg/kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2940J	18700	2680	ug/Kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	8.96	5.36	0.681	ug/Kg
67-64-1	Acetone	23.6J	26.8	1.16	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	AOCU-HA47-2	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	3.07J	5.36	0.114	ug/Kg
67-66-3	Chloroform	0.743J	5.36	0.241	ug/Kg
108-88-3	Toluene	2.63J	5.36	0.283	ug/Kg
110-54-3	n-Hexane	2.22J	5.36	0.345	ug/Kg
95-47-6	o-Xylene	1.10J	5.36	0.154	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	4.29	0.707	0.037	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	AOCU-HA50-2	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.017B	0.017	0.0050	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.01	5.55	0.705	ug/Kg
67-64-1	Acetone	12.7J	27.7	1.20	ug/Kg
71-43-2	Benzene	2.07J	5.55	0.118	ug/Kg
67-66-3	Chloroform	0.785J	5.55	0.250	ug/Kg
108-88-3	Toluene	1.67J	5.55	0.293	ug/Kg
110-54-3	n-Hexane	1.17J	5.55	0.357	ug/Kg
95-47-6	o-Xylene	0.979J	5.55	0.160	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	2210	23.7	1.87	mg/kg
7440-36-0	Antimony	0.54B	7.11	0.35	mg/kg
7440-38-2	Arsenic	0.78B	4.74	0.26	mg/kg
7440-39-3	Barium	22.7	1.18	0.032	mg/kg
7440-41-7	Beryllium	0.041B	0.59	0.0082	mg/kg
7440-43-9	Cadmium	0.15B	0.59	0.029	mg/kg
7440-70-2	Calcium	163000	88.8	2.73	mg/kg
7440-47-3	Chromium	2.40	1.18	0.034	mg/kg
7440-48-4	Cobalt	0.78B	1.18	0.065	mg/kg
7440-50-8	Copper	3.23	1.18	0.097	mg/kg
7439-89-6	Iron	2200	11.8	2.68	mg/kg
7439-92-1	Lead	1.97	1.78	0.21	mg/kg
7439-95-4	Magnesium	5740	11.8	3.97	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	AOCU-HA50-2	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-96-5	Manganese	46.2	1.78	0.12	mg/kg
7440-02-0	Nickel	1.37B	4.74	0.093	mg/kg
7440-09-7	Potassium	851	59.2	5.39	mg/kg
7440-62-2	Vanadium	7.70	2.37	0.15	mg/kg
7440-66-6	Zinc	7.95	2.37	0.98	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	5850	118	10.4	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	13.5	3.70	0.192	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	AOCU-HA56-1	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	3930J	19400	2790	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1420	23.6	1.86	mg/kg
7440-36-0	Antimony	0.74B	7.07	0.35	mg/kg
7440-39-3	Barium	18.4	1.18	0.032	mg/kg
7440-41-7	Beryllium	0.025B	0.59	0.0082	mg/kg
7440-43-9	Cadmium	0.29B	0.59	0.029	mg/kg
7440-70-2	Calcium	191000	88.4	2.71	mg/kg
7440-47-3	Chromium	1.29	1.18	0.034	mg/kg
7440-48-4	Cobalt	0.64B	1.18	0.064	mg/kg
7440-50-8	Copper	2.43	1.18	0.097	mg/kg
7439-89-6	Iron	1290	11.8	2.67	mg/kg
7439-92-1	Lead	0.96B	1.77	0.21	mg/kg
7439-95-4	Magnesium	5800	11.8	3.95	mg/kg
7439-96-5	Manganese	33.8	1.77	0.11	mg/kg
7440-02-0	Nickel	0.84B	4.71	0.092	mg/kg
7440-09-7	Potassium	592	58.9	5.36	mg/kg
7440-62-2	Vanadium	3.85	2.36	0.15	mg/kg
7440-66-6	Zinc	4.48	2.36	0.98	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	8560	118	10.3	mg/kg

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CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	7.90	7.10	0.901	ug/Kg
67-64-1	Acetone	18.7J	35.5	1.53	ug/Kg
71-43-2	Benzene	0.828J	7.10	0.150	ug/Kg
67-66-3	Chloroform	0.888J	7.10	0.319	ug/Kg
108-88-3	Toluene	0.490J	7.10	0.375	ug/Kg
110-54-3	n-Hexane	0.491J	7.10	0.457	ug/Kg
95-47-6	o-Xylene	1.06J	7.10	0.204	ug/Kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.016B	0.018	0.0051	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	43.0	3.71	0.193	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	3290J	18100	2590	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	3490	21.7	1.71	mg/kg
7440-38-2	Arsenic	0.82B	4.34	0.24	mg/kg
7440-39-3	Barium	33.6	1.09	0.030	mg/kg
7440-41-7	Beryllium	0.13B	0.54	0.0075	mg/kg
7440-43-9	Cadmium	0.20B	0.54	0.026	mg/kg
7440-70-2	Calcium	135000	81.4	2.50	mg/kg
7440-47-3	Chromium	3.23	1.09	0.031	mg/kg
7440-48-4	Cobalt	1.11	1.09	0.059	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-50-8	Copper	4.09	1.09	0.089	mg/kg
7439-89-6	Iron	3240	10.9	2.46	mg/kg
7439-92-1	Lead	2.53	1.63	0.19	mg/kg
7439-95-4	Magnesium	12400	10.9	3.64	mg/kg
7439-96-5	Manganese	83.6	1.63	0.11	mg/kg
7440-02-0	Nickel	2.42B	4.34	0.085	mg/kg
7440-09-7	Potassium	1050	54.3	4.94	mg/kg
7440-62-2	Vanadium	8.31	2.17	0.13	mg/kg
7440-66-6	Zinc	13.3	2.17	0.90	mg/kg

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CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	Sodium	10900	109	9.53	mg/kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.014B	0.016	0.0046	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	9.94	5.99	0.760	ug/Kg
67-64-1	Acetone	38.7	29.9	1.29	ug/Kg
71-43-2	Benzene	1.02J	5.99	0.127	ug/Kg
67-66-3	Chloroform	0.861J	5.99	0.269	ug/Kg
108-88-3	Toluene	1.04J	5.99	0.316	ug/Kg
110-54-3	n-Hexane	1.18J	5.99	0.385	ug/Kg
95-47-6	o-Xylene	0.964J	5.99	0.172	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	20.2	1.36	0.071	mg/kg-N

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-27-4	Bromodichloromethane	3.69J	5	0.071	ug/L
67-66-3	Chloroform	6.75	5	0.062	ug/L
124-48-1	Dibromochloromethane	0.893J	5	0.133	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00031	0.00020	0.000081	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0042B	0.010	0.00011	mg/L
7440-43-9	Cadmium	0.00016B	0.0050	0.00011	mg/L
7440-48-4	Cobalt	0.00055B	0.010	0.00040	mg/L
7440-50-8	Copper	0.0016B	0.010	0.0014	mg/L
7439-95-4	Magnesium	0.068B	0.10	0.014	mg/L
7439-96-5	Manganese	0.0013B	0.015	0.0012	mg/L
7440-02-0	Nickel	0.0012B	0.040	0.00096	mg/L
7440-09-7	Potassium	0.38B	0.50	0.053	mg/L
7440-23-5	Sodium	17.6	1.00	0.051	mg/L
7440-28-0	Thallium	0.0048B	0.020	0.0018	mg/L
7440-62-2	Vanadium	0.0017B	0.020	0.00082	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	0.27	0.10	0.026	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.086	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 04:20	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.258U	5.99	0.258	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.230U	5.99	0.230	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.236U	5.99	0.236	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.205U	5.99	0.205	ug/Kg
75-34-3	1,1-Dichloroethane	0.211U	5.99	0.211	ug/Kg
75-35-4	1,1-Dichloroethene	0.368U	5.99	0.368	ug/Kg
563-58-6	1,1-Dichloropropene	0.237U	5.99	0.237	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.135U	5.99	0.135	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.196U	5.99	0.196	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.174U	5.99	0.174	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.143U	5.99	0.143	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.835U	5.99	0.835	ug/Kg
106-93-4	1,2-Dibromoethane	0.657U	5.99	0.657	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.304U	5.99	0.304	ug/Kg
107-06-2	1,2-Dichloroethane	0.218U	5.99	0.218	ug/Kg
78-87-5	1,2-Dichloropropane	0.147U	5.99	0.147	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.137U	5.99	0.137	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.169U	5.99	0.169	ug/Kg
142-28-9	1,3-Dichloropropane	0.161U	5.99	0.161	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.170U	5.99	0.170	ug/Kg
544-10-5	1-Chlorohexane	0.176U	5.99	0.176	ug/Kg
594-20-7	2,2-Dichloropropane	0.364U	5.99	0.364	ug/Kg
78-93-3	**2-Butanone**	**3.83J**	**5.99**	**0.761**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.44U	5.99	1.44	ug/Kg
95-49-8	2-Chlorotoluene	0.207U	5.99	0.207	ug/Kg
591-78-6	2-Hexanone	0.847U	5.99	0.847	ug/Kg
106-43-4	4-Chlorotoluene	0.132U	5.99	0.132	ug/Kg
99-87-6	4-Isopropyltoluene	0.102U	5.99	0.102	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.270U	5.99	0.270	ug/Kg
67-64-1	**Acetone**	**14.4J**	**29.9**	**1.29**	**ug/Kg**
75-05-8	Acetonitrile	2.00U	120	2.00	ug/Kg
107-02-8	Acrolein	2.79U	29.9	2.79	ug/Kg
107-13-1	Acrylonitrile	0.695U	29.9	0.695	ug/Kg
107-05-1	Allyl chloride	0.660U	5.99	0.660	ug/Kg
71-43-2	**Benzene**	**1.27J**	**5.99**	**0.127**	**ug/Kg**
108-86-1	Bromobenzene	0.176U	5.99	0.176	ug/Kg
74-97-5	Bromochloromethane	0.289U	5.99	0.289	ug/Kg
75-27-4	Bromodichloromethane	0.162U	5.99	0.162	ug/Kg
75-25-2	Bromoform	0.256U	5.99	0.256	ug/Kg
74-83-9	Bromomethane	0.764U	5.99	0.764	ug/Kg
75-15-0	Carbon disulfide	0.432U	5.99	0.432	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 04:20	JCK	461363

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.246U	5.99	0.246	ug/Kg
108-90-7	Chlorobenzene	0.214U	5.99	0.214	ug/Kg
75-00-3	Chloroethane	0.292U	5.99	0.292	ug/Kg
67-66-3	**Chloroform**	**0.878J**	**5.99**	**0.270**	**ug/Kg**
74-87-3	Chloromethane	0.677U	5.99	0.677	ug/Kg
124-48-1	Dibromochloromethane	0.229U	5.99	0.229	ug/Kg
74-95-3	Dibromomethane	0.232U	5.99	0.232	ug/Kg
75-71-8	Dichlorodifluoromethane	0.143U	5.99	0.143	ug/Kg
97-63-2	Ethyl methacrylate	0.516U	5.99	0.516	ug/Kg
100-41-4	Ethylbenzene	0.262U	5.99	0.262	ug/Kg
87-68-3	Hexachlorobutadiene	0.182U	5.99	0.182	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.112U	5.99	0.112	ug/Kg
126-98-7	Methacrylonitrile	0.528U	5.99	0.528	ug/Kg
74-88-4	Methyl iodide	1.47U	5.99	1.47	ug/Kg
80-62-6	Methyl methacrylate	0.957U	5.99	0.957	ug/Kg
75-09-2	Methylene chloride	0.576U	12.0	0.576	ug/Kg
91-20-3	Naphthalene	0.210U	5.99	0.210	ug/Kg
76-01-7	Pentachloroethane	0.979U	5.99	0.979	ug/Kg
107-12-0	Propionitrile	3.04U	5.99	3.04	ug/Kg
100-42-5	Styrene	0.494U	5.99	0.494	ug/Kg
127-18-4	Tetrachloroethene	0.244U	5.99	0.244	ug/Kg
108-88-3	**Toluene**	**0.977J**	**5.99**	**0.316**	**ug/Kg**
79-01-6	Trichloroethene	0.208U	5.99	0.208	ug/Kg
75-69-4	Trichlorofluoromethane	0.244U	5.99	0.244	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.240U	5.99	0.240	ug/Kg
108-05-4	Vinyl acetate	0.265U	5.99	0.265	ug/Kg
75-01-4	Vinyl chloride	0.299U	5.99	0.299	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.155U	5.99	0.155	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.391U	5.99	0.391	ug/Kg
136777-61-2	m,p-Xylene	0.425U	5.99	0.425	ug/Kg
104-51-8	n-Butylbenzene	0.170U	5.99	0.170	ug/Kg
110-54-3	**n-Hexane**	**1.18J**	**5.99**	**0.386**	**ug/Kg**
103-65-1	n-Propylbenzene	0.132U	5.99	0.132	ug/Kg
95-47-6	**o-Xylene**	**0.962J**	**5.99**	**0.173**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.129U	5.99	0.129	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.286U	5.99	0.286	ug/Kg
98-06-6	tert-Butylbenzene	0.165U	5.99	0.165	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.382U	5.99	0.382	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.569U	5.99	0.569	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.621U	5.99	0.621	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	39.4	39.1	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	39.4	40.2	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	39.4	39.9	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	39.4	42.5	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 04:20	JCK	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 09:24	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	17.1U	500	17.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	16.8U	500	16.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.0U	500	19.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	15.8U	500	15.8	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8U	500	33.8	ug/Kg
88-06-2	2,4,6-Trichlorophenol	119U	500	119	ug/Kg
120-83-2	2,4-Dichlorophenol	53.7U	500	53.7	ug/Kg
105-67-9	2,4-Dimethylphenol	353U	500	353	ug/Kg
51-28-5	2,4-Dinitrophenol	230U	500	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	30.3U	500	30.3	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.3U	500	40.3	ug/Kg
91-58-7	2-Chloronaphthalene	16.1U	500	16.1	ug/Kg
95-57-8	2-Chlorophenol	17.6U	500	17.6	ug/Kg
91-57-6	2-Methylnaphthalene	13.6U	500	13.6	ug/Kg
88-74-4	2-Nitroaniline	36.4U	2500	36.4	ug/Kg
88-75-5	2-Nitrophenol	37.2U	500	37.2	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	464U	1000	464	ug/Kg
99-09-2	3-Nitroaniline	33.4U	2500	33.4	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	227U	2500	227	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	28.1U	500	28.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	47.8U	500	47.8	ug/Kg
106-47-8	4-Chloroaniline	33.7U	500	33.7	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	28.4U	500	28.4	ug/Kg
100-01-6	4-Nitroaniline	247U	2500	247	ug/Kg
100-02-7	4-Nitrophenol	141U	2500	141	ug/Kg
83-32-9	Acenaphthene	19.9U	500	19.9	ug/Kg
208-96-8	Acenaphthylene	19.9U	500	19.9	ug/Kg
120-12-7	Anthracene	17.3U	500	17.3	ug/Kg
92-87-5	Benzidine	2500U	2500	2500	ug/Kg
56-55-3	Benzo(a)anthracene	39.1U	500	39.1	ug/Kg
50-32-8	Benzo(a)pyrene	18.7U	500	18.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	46.1U	500	46.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.9U	500	15.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	20.3U	500	20.3	ug/Kg
65-85-0	Benzoic acid	103U	2500	103	ug/Kg
100-51-6	Benzyl alcohol	68.4U	500	68.4	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	39.1U	500	39.1	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	36.8U	500	36.8	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	31.2U	500	31.2	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	29.7U	500	29.7	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 09:24	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.99U	500	8.99	ug/Kg
218-01-9	Chrysene	22.0U	500	22.0	ug/Kg
84-74-2	Di-n-butyl phthalate	19.9U	500	19.9	ug/Kg
117-84-0	Di-n-octyl phthalate	6.73U	500	6.73	ug/Kg
53-70-3	Dibenz(a,h)anthracene	17.4U	500	17.4	ug/Kg
132-64-9	Dibenzofuran	16.2U	500	16.2	ug/Kg
84-66-2	Diethyl phthalate	30.8U	500	30.8	ug/Kg
131-11-3	Dimethyl phthalate	21.4U	500	21.4	ug/Kg
206-44-0	Fluoranthene	9.89U	500	9.89	ug/Kg
86-73-7	Fluorene	19.6U	500	19.6	ug/Kg
118-74-1	Hexachlorobenzene	29.0U	500	29.0	ug/Kg
87-68-3	Hexachlorobutadiene	30.3U	500	30.3	ug/Kg
77-47-4	Hexachlorocyclopentadiene	182U	500	182	ug/Kg
67-72-1	Hexachloroethane	24.1U	500	24.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46.9U	500	46.9	ug/Kg
78-59-1	Isophorone	17.6U	500	17.6	ug/Kg
91-20-3	Naphthalene	20.0U	500	20.0	ug/Kg
98-95-3	Nitrobenzene	27.9U	500	27.9	ug/Kg
87-86-5	**Pentachlorophenol**	**218J**	**2500**	**191**	**ug/Kg**
85-01-8	Phenanthrene	16.1U	500	16.1	ug/Kg
108-95-2	Phenol	30.0U	500	30.0	ug/Kg
129-00-0	Pyrene	23.2U	500	23.2	ug/Kg
1319-77-3MP	m,p-Cresol	70.7U	500	70.7	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	22.9U	500	22.9	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.9U	500	15.9	ug/Kg
95-48-7	o-Cresol	17.7U	500	17.7	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1270	ug/Kg	76	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1330	ug/Kg	80	46 - 122
1718-51-0	Terphenyl-d14	1660	1500	ug/Kg	90	45 - 135
4165-62-2	Phenol-d5	3320	2740	ug/Kg	82	44 - 124
367-12-4	2-Fluorophenol	3320	2720	ug/Kg	82	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2910	ug/Kg	88	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 13:59	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1930U	5990	1930	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1290	ug/Kg	79	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 22:25	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	902U	6940	902	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1370	1430	ug/Kg	104	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 13:59	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**4100J**	**19900**	**2860**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1310	ug/Kg	80	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:18	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.016B**	**0.018**	**0.0052**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	5	07/18/2011 14:28	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**2820**	**60.9**	**4.80**	**mg/kg**
7440-36-0	**Antimony**	**1.22B**	**18.3**	**0.90**	**mg/kg**
7440-38-2	**Arsenic**	**1.05B**	**12.2**	**0.67**	**mg/kg**
7440-39-3	**Barium**	**31.8**	**3.04**	**0.083**	**mg/kg**
7440-41-7	**Beryllium**	**0.041B**	**1.52**	**0.021**	**mg/kg**
7440-43-9	**Cadmium**	**0.60B**	**1.52**	**0.074**	**mg/kg**
7440-70-2	**Calcium**	**252000**	**228**	**7.01**	**mg/kg**
7440-47-3	**Chromium**	**2.69B**	**3.04**	**0.088**	**mg/kg**
7440-48-4	**Cobalt**	**0.79B**	**3.04**	**0.17**	**mg/kg**
7440-50-8	**Copper**	**7.33**	**3.04**	**0.25**	**mg/kg**
7439-89-6	**Iron**	**1960**	**30.4**	**6.89**	**mg/kg**
7439-92-1	**Lead**	**1.40B**	**4.56**	**0.54**	**mg/kg**
7439-95-4	**Magnesium**	**20400**	**30.4**	**10.2**	**mg/kg**
7439-96-5	**Manganese**	**59.4**	**4.56**	**0.30**	**mg/kg**
7440-02-0	**Nickel**	**1.29B**	**12.2**	**0.24**	**mg/kg**
7440-09-7	**Potassium**	**1100**	**152**	**13.8**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131601	**AOCU-HA12-2**	Solid	07/11/2011 13:30	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	5	07/18/2011 14:28	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	1.46U	12.2	1.46	mg/kg
7440-22-4	**Silver**	**0.28B**	**3.04**	**0.27**	**mg/kg**
7440-28-0	Thallium	0.76U	6.09	0.76	mg/kg
7440-62-2	**Vanadium**	**16.4**	**6.09**	**0.38**	**mg/kg**
7440-66-6	**Zinc**	**6.80**	**6.09**	**2.52**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	5	07/19/2011 16:54	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**17100**	**304**	**26.7**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 15:59	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**3.28**	**0.761**	**0.040**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**34.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:41	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.232U	5.39	0.232	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.207U	5.39	0.207	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.212U	5.39	0.212	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.184U	5.39	0.184	ug/Kg
75-34-3	1,1-Dichloroethane	0.190U	5.39	0.190	ug/Kg
75-35-4	1,1-Dichloroethene	0.331U	5.39	0.331	ug/Kg
563-58-6	1,1-Dichloropropene	0.213U	5.39	0.213	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.122U	5.39	0.122	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.177U	5.39	0.177	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.156U	5.39	0.156	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.128U	5.39	0.128	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.751U	5.39	0.751	ug/Kg
106-93-4	1,2-Dibromoethane	0.590U	5.39	0.590	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.274U	5.39	0.274	ug/Kg
107-06-2	1,2-Dichloroethane	0.196U	5.39	0.196	ug/Kg
78-87-5	1,2-Dichloropropane	0.133U	5.39	0.133	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.123U	5.39	0.123	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.152U	5.39	0.152	ug/Kg
142-28-9	1,3-Dichloropropane	0.144U	5.39	0.144	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.153U	5.39	0.153	ug/Kg
544-10-5	1-Chlorohexane	0.158U	5.39	0.158	ug/Kg
594-20-7	2,2-Dichloropropane	0.328U	5.39	0.328	ug/Kg
78-93-3	**2-Butanone**	**26.6**	**5.39**	**0.684**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.29U	5.39	1.29	ug/Kg
95-49-8	2-Chlorotoluene	0.186U	5.39	0.186	ug/Kg
591-78-6	2-Hexanone	0.762U	5.39	0.762	ug/Kg
106-43-4	4-Chlorotoluene	0.119U	5.39	0.119	ug/Kg
99-87-6	4-Isopropyltoluene	0.092U	5.39	0.092	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.242U	5.39	0.242	ug/Kg
67-64-1	**Acetone**	**101**	**26.9**	**1.16**	**ug/Kg**
75-05-8	Acetonitrile	1.80U	108	1.80	ug/Kg
107-02-8	Acrolein	2.51U	26.9	2.51	ug/Kg
107-13-1	Acrylonitrile	0.625U	26.9	0.625	ug/Kg
107-05-1	Allyl chloride	0.594U	5.39	0.594	ug/Kg
71-43-2	**Benzene**	**2.14J**	**5.39**	**0.114**	**ug/Kg**
108-86-1	Bromobenzene	0.158U	5.39	0.158	ug/Kg
74-97-5	Bromochloromethane	0.260U	5.39	0.260	ug/Kg
75-27-4	Bromodichloromethane	0.145U	5.39	0.145	ug/Kg
75-25-2	Bromoform	0.231U	5.39	0.231	ug/Kg
74-83-9	Bromomethane	0.687U	5.39	0.687	ug/Kg
75-15-0	Carbon disulfide	0.389U	5.39	0.389	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:41	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.221U	5.39	0.221	ug/Kg
108-90-7	Chlorobenzene	0.193U	5.39	0.193	ug/Kg
75-00-3	Chloroethane	0.263U	5.39	0.263	ug/Kg
67-66-3	**Chloroform**	**0.906J**	**5.39**	**0.242**	**ug/Kg**
74-87-3	Chloromethane	0.609U	5.39	0.609	ug/Kg
124-48-1	Dibromochloromethane	0.206U	5.39	0.206	ug/Kg
74-95-3	Dibromomethane	0.209U	5.39	0.209	ug/Kg
75-71-8	Dichlorodifluoromethane	0.128U	5.39	0.128	ug/Kg
97-63-2	Ethyl methacrylate	0.464U	5.39	0.464	ug/Kg
100-41-4	Ethylbenzene	0.236U	5.39	0.236	ug/Kg
87-68-3	Hexachlorobutadiene	0.164U	5.39	0.164	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.100U	5.39	0.100	ug/Kg
126-98-7	Methacrylonitrile	0.475U	5.39	0.475	ug/Kg
74-88-4	Methyl iodide	1.33U	5.39	1.33	ug/Kg
80-62-6	Methyl methacrylate	0.861U	5.39	0.861	ug/Kg
75-09-2	Methylene chloride	0.518U	10.8	0.518	ug/Kg
91-20-3	Naphthalene	0.189U	5.39	0.189	ug/Kg
76-01-7	Pentachloroethane	0.880U	5.39	0.880	ug/Kg
107-12-0	Propionitrile	2.74U	5.39	2.74	ug/Kg
100-42-5	Styrene	0.444U	5.39	0.444	ug/Kg
127-18-4	Tetrachloroethene	0.220U	5.39	0.220	ug/Kg
108-88-3	**Toluene**	**1.53J**	**5.39**	**0.284**	**ug/Kg**
79-01-6	Trichloroethene	0.187U	5.39	0.187	ug/Kg
75-69-4	Trichlorofluoromethane	0.220U	5.39	0.220	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.215U	5.39	0.215	ug/Kg
108-05-4	Vinyl acetate	0.238U	5.39	0.238	ug/Kg
75-01-4	Vinyl chloride	0.269U	5.39	0.269	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.139U	5.39	0.139	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.351U	5.39	0.351	ug/Kg
136777-61-2	m,p-Xylene	0.382U	5.39	0.382	ug/Kg
104-51-8	n-Butylbenzene	0.153U	5.39	0.153	ug/Kg
110-54-3	**n-Hexane**	**2.10J**	**5.39**	**0.347**	**ug/Kg**
103-65-1	n-Propylbenzene	0.119U	5.39	0.119	ug/Kg
95-47-6	**o-Xylene**	**0.919J**	**5.39**	**0.155**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.116U	5.39	0.116	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.257U	5.39	0.257	ug/Kg
98-06-6	tert-Butylbenzene	0.149U	5.39	0.149	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.344U	5.39	0.344	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.512U	5.39	0.512	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.558U	5.39	0.558	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	38.7	39.4	ug/Kg	102	59 - 148
1868-53-7	Dibromofluoromethane	38.7	39.8	ug/Kg	103	80 - 121
2037-26-5	Toluene d8	38.7	39	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	38.7	42.6	ug/Kg	110	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:41	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:17	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.5U	452	15.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.2U	452	15.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.1U	452	17.1	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.2U	452	14.2	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.5U	452	30.5	ug/Kg
88-06-2	2,4,6-Trichlorophenol	108U	452	108	ug/Kg
120-83-2	2,4-Dichlorophenol	48.5U	452	48.5	ug/Kg
105-67-9	2,4-Dimethylphenol	319U	452	319	ug/Kg
51-28-5	2,4-Dinitrophenol	208U	452	208	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.4U	452	27.4	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.4U	452	36.4	ug/Kg
91-58-7	2-Chloronaphthalene	14.5U	452	14.5	ug/Kg
95-57-8	2-Chlorophenol	15.9U	452	15.9	ug/Kg
91-57-6	2-Methylnaphthalene	12.3U	452	12.3	ug/Kg
88-74-4	2-Nitroaniline	32.9U	2260	32.9	ug/Kg
88-75-5	2-Nitrophenol	33.5U	452	33.5	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	419U	904	419	ug/Kg
99-09-2	3-Nitroaniline	30.1U	2260	30.1	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	205U	2260	205	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.3U	452	25.3	ug/Kg
59-50-7	4-Chloro-3-methylphenol	43.1U	452	43.1	ug/Kg
106-47-8	4-Chloroaniline	30.4U	452	30.4	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.6U	452	25.6	ug/Kg
100-01-6	4-Nitroaniline	223U	2260	223	ug/Kg
100-02-7	4-Nitrophenol	127U	2260	127	ug/Kg
83-32-9	Acenaphthene	17.9U	452	17.9	ug/Kg
208-96-8	Acenaphthylene	17.9U	452	17.9	ug/Kg
120-12-7	Anthracene	15.6U	452	15.6	ug/Kg
92-87-5	Benzidine	2260U	2260	2260	ug/Kg
56-55-3	Benzo(a)anthracene	35.3U	452	35.3	ug/Kg
50-32-8	Benzo(a)pyrene	16.8U	452	16.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.6U	452	41.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.4U	452	14.4	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.3U	452	18.3	ug/Kg
65-85-0	Benzoic acid	93.1U	2260	93.1	ug/Kg
100-51-6	Benzyl alcohol	61.7U	452	61.7	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.3U	452	35.3	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	33.3U	452	33.3	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.2U	452	28.2	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.8U	452	26.8	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:17	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.12U	452	8.12	ug/Kg
218-01-9	Chrysene	19.9U	452	19.9	ug/Kg
84-74-2	Di-n-butyl phthalate	17.9U	452	17.9	ug/Kg
117-84-0	Di-n-octyl phthalate	6.08U	452	6.08	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.7U	452	15.7	ug/Kg
132-64-9	Dibenzofuran	14.6U	452	14.6	ug/Kg
84-66-2	Diethyl phthalate	27.8U	452	27.8	ug/Kg
131-11-3	Dimethyl phthalate	19.3U	452	19.3	ug/Kg
206-44-0	Fluoranthene	8.93U	452	8.93	ug/Kg
86-73-7	Fluorene	17.7U	452	17.7	ug/Kg
118-74-1	Hexachlorobenzene	26.2U	452	26.2	ug/Kg
87-68-3	Hexachlorobutadiene	27.4U	452	27.4	ug/Kg
77-47-4	Hexachlorocyclopentadiene	164U	452	164	ug/Kg
67-72-1	Hexachloroethane	21.8U	452	21.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42.3U	452	42.3	ug/Kg
78-59-1	Isophorone	15.9U	452	15.9	ug/Kg
91-20-3	Naphthalene	18.1U	452	18.1	ug/Kg
98-95-3	Nitrobenzene	25.2U	452	25.2	ug/Kg
87-86-5	Pentachlorophenol	173U	2260	173	ug/Kg
85-01-8	Phenanthrene	14.5U	452	14.5	ug/Kg
108-95-2	Phenol	27.1U	452	27.1	ug/Kg
129-00-0	Pyrene	20.9U	452	20.9	ug/Kg
1319-77-3MP	m,p-Cresol	63.8U	452	63.8	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.7U	452	20.7	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.4U	452	14.4	ug/Kg
95-48-7	o-Cresol	16.0U	452	16.0	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	1410	ug/Kg	86	41 - 123
321-60-8	2-Fluorobiphenyl	1640	1480	ug/Kg	90	46 - 122
1718-51-0	Terphenyl-d14	1640	1700	ug/Kg	104	45 - 135
4165-62-2	Phenol-d5	3280	3100	ug/Kg	95	44 - 124
367-12-4	2-Fluorophenol	3280	3070	ug/Kg	94	45 - 114
118-79-6	2,4,6-Tribromophenol	3280	3180	ug/Kg	97	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 14:16	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1780U	5530	1780	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1420	ug/Kg	86	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 22:49	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	795U	6120	795	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1320	1360	ug/Kg	103	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 14:16	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**3120J**	**18400**	**2640**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1430	ug/Kg	86	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:25	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.018**	**0.016**	**0.0047**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 14:48	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**7830**	**22.1**	**1.74**	**mg/kg**
7440-36-0	**Antimony**	**0.64B**	**6.63**	**0.33**	**mg/kg**
7440-38-2	**Arsenic**	**2.77B**	**4.42**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**65.1**	**1.10**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.31B**	**0.55**	**0.0077**	**mg/kg**
7440-43-9	**Cadmium**	**0.53B**	**0.55**	**0.027**	**mg/kg**
7440-70-2	**Calcium**	**158000**	**82.9**	**2.54**	**mg/kg**
7440-47-3	**Chromium**	**6.66**	**1.10**	**0.032**	**mg/kg**
7440-48-4	**Cobalt**	**2.24**	**1.10**	**0.060**	**mg/kg**
7440-50-8	**Copper**	**6.61**	**1.10**	**0.091**	**mg/kg**
7439-89-6	**Iron**	**6300**	**11.0**	**2.50**	**mg/kg**
7439-92-1	**Lead**	**3.24**	**1.66**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**36000**	**11.0**	**3.70**	**mg/kg**
7439-96-5	**Manganese**	**187**	**1.66**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**5.11**	**4.42**	**0.087**	**mg/kg**
7440-09-7	**Potassium**	**2140**	**55.2**	**5.03**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131602	**AOCU-HA35-3**	Solid	07/11/2011 14:30	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 14:48	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.53U	4.42	0.53	mg/kg
7440-22-4	Silver	0.096U	1.10	0.096	mg/kg
7440-28-0	Thallium	0.27U	2.21	0.27	mg/kg
7440-62-2	**Vanadium**	**12.5**	**2.21**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**21.6**	**2.21**	**0.91**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 17:25	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**14200**	**110**	**9.69**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 16:01	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.036U	0.696	0.036	mg/kg-N

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**28.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:14	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.239U	5.56	0.239	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.214U	5.56	0.214	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.219U	5.56	0.219	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.190U	5.56	0.190	ug/Kg
75-34-3	1,1-Dichloroethane	0.196U	5.56	0.196	ug/Kg
75-35-4	1,1-Dichloroethene	0.342U	5.56	0.342	ug/Kg
563-58-6	1,1-Dichloropropene	0.220U	5.56	0.220	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.126U	5.56	0.126	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.182U	5.56	0.182	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.161U	5.56	0.161	ug/Kg
95-63-6	**1,2,4-Trimethylbenzene**	**0.189J**	**5.56**	**0.132**	**ug/Kg**
96-12-8	1,2-Dibromo-3-chloropropane	0.775U	5.56	0.775	ug/Kg
106-93-4	1,2-Dibromoethane	0.610U	5.56	0.610	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.283U	5.56	0.283	ug/Kg
107-06-2	1,2-Dichloroethane	0.202U	5.56	0.202	ug/Kg
78-87-5	1,2-Dichloropropane	0.137U	5.56	0.137	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.127U	5.56	0.127	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.157U	5.56	0.157	ug/Kg
142-28-9	1,3-Dichloropropane	0.149U	5.56	0.149	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.158U	5.56	0.158	ug/Kg
544-10-5	1-Chlorohexane	0.164U	5.56	0.164	ug/Kg
594-20-7	2,2-Dichloropropane	0.338U	5.56	0.338	ug/Kg
78-93-3	**2-Butanone**	**11.8**	**5.56**	**0.706**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.33U	5.56	1.33	ug/Kg
95-49-8	2-Chlorotoluene	0.192U	5.56	0.192	ug/Kg
591-78-6	2-Hexanone	0.786U	5.56	0.786	ug/Kg
106-43-4	4-Chlorotoluene	0.122U	5.56	0.122	ug/Kg
99-87-6	4-Isopropyltoluene	0.095U	5.56	0.095	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.250U	5.56	0.250	ug/Kg
67-64-1	**Acetone**	**30.3**	**27.8**	**1.20**	**ug/Kg**
75-05-8	Acetonitrile	1.86U	111	1.86	ug/Kg
107-02-8	Acrolein	2.59U	27.8	2.59	ug/Kg
107-13-1	Acrylonitrile	0.645U	27.8	0.645	ug/Kg
107-05-1	Allyl chloride	0.613U	5.56	0.613	ug/Kg
71-43-2	**Benzene**	**6.45**	**5.56**	**0.118**	**ug/Kg**
108-86-1	Bromobenzene	0.164U	5.56	0.164	ug/Kg
74-97-5	Bromochloromethane	0.268U	5.56	0.268	ug/Kg
75-27-4	Bromodichloromethane	0.150U	5.56	0.150	ug/Kg
75-25-2	Bromoform	0.238U	5.56	0.238	ug/Kg
74-83-9	Bromomethane	0.710U	5.56	0.710	ug/Kg
75-15-0	Carbon disulfide	0.402U	5.56	0.402	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:14	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.228U	5.56	0.228	ug/Kg
108-90-7	Chlorobenzene	0.199U	5.56	0.199	ug/Kg
75-00-3	Chloroethane	0.271U	5.56	0.271	ug/Kg
67-66-3	**Chloroform**	**0.712J**	**5.56**	**0.250**	**ug/Kg**
74-87-3	Chloromethane	0.629U	5.56	0.629	ug/Kg
124-48-1	Dibromochloromethane	0.212U	5.56	0.212	ug/Kg
74-95-3	Dibromomethane	0.216U	5.56	0.216	ug/Kg
75-71-8	Dichlorodifluoromethane	0.132U	5.56	0.132	ug/Kg
97-63-2	Ethyl methacrylate	0.479U	5.56	0.479	ug/Kg
100-41-4	Ethylbenzene	0.244U	5.56	0.244	ug/Kg
87-68-3	Hexachlorobutadiene	0.169U	5.56	0.169	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.104U	5.56	0.104	ug/Kg
126-98-7	Methacrylonitrile	0.491U	5.56	0.491	ug/Kg
74-88-4	Methyl iodide	1.37U	5.56	1.37	ug/Kg
80-62-6	Methyl methacrylate	0.889U	5.56	0.889	ug/Kg
75-09-2	Methylene chloride	0.535U	11.1	0.535	ug/Kg
91-20-3	Naphthalene	0.195U	5.56	0.195	ug/Kg
76-01-7	Pentachloroethane	0.909U	5.56	0.909	ug/Kg
107-12-0	Propionitrile	2.83U	5.56	2.83	ug/Kg
100-42-5	Styrene	0.458U	5.56	0.458	ug/Kg
127-18-4	Tetrachloroethene	0.227U	5.56	0.227	ug/Kg
108-88-3	**Toluene**	**5.25J**	**5.56**	**0.294**	**ug/Kg**
79-01-6	Trichloroethene	0.194U	5.56	0.194	ug/Kg
75-69-4	Trichlorofluoromethane	0.227U	5.56	0.227	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.222U	5.56	0.222	ug/Kg
108-05-4	Vinyl acetate	0.246U	5.56	0.246	ug/Kg
75-01-4	Vinyl chloride	0.278U	5.56	0.278	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.144U	5.56	0.144	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.363U	5.56	0.363	ug/Kg
136777-61-2	**m,p-Xylene**	**0.987J**	**5.56**	**0.395**	**ug/Kg**
104-51-8	n-Butylbenzene	0.158U	5.56	0.158	ug/Kg
110-54-3	**n-Hexane**	**3.53J**	**5.56**	**0.358**	**ug/Kg**
103-65-1	n-Propylbenzene	0.122U	5.56	0.122	ug/Kg
95-47-6	**o-Xylene**	**1.39J**	**5.56**	**0.160**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.120U	5.56	0.120	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.266U	5.56	0.266	ug/Kg
98-06-6	tert-Butylbenzene	0.154U	5.56	0.154	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.355U	5.56	0.355	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.528U	5.56	0.528	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.576U	5.56	0.576	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	38.9	39.1	ug/Kg	101	59 - 148
1868-53-7	Dibromofluoromethane	38.9	39.7	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	38.9	39.3	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	38.9	42.6	ug/Kg	110	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 14:14	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:32	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.1U	469	16.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.8U	469	15.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8U	469	17.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.8U	469	14.8	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.7U	469	31.7	ug/Kg
88-06-2	2,4,6-Trichlorophenol	112U	469	112	ug/Kg
120-83-2	2,4-Dichlorophenol	50.3U	469	50.3	ug/Kg
105-67-9	2,4-Dimethylphenol	331U	469	331	ug/Kg
51-28-5	2,4-Dinitrophenol	216U	469	216	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.4U	469	28.4	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.8U	469	37.8	ug/Kg
91-58-7	2-Chloronaphthalene	15.1U	469	15.1	ug/Kg
95-57-8	2-Chlorophenol	16.5U	469	16.5	ug/Kg
91-57-6	2-Methylnaphthalene	12.7U	469	12.7	ug/Kg
88-74-4	2-Nitroaniline	34.1U	2340	34.1	ug/Kg
88-75-5	2-Nitrophenol	34.8U	469	34.8	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	435U	938	435	ug/Kg
99-09-2	3-Nitroaniline	31.3U	2340	31.3	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	213U	2340	213	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.3U	469	26.3	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.8U	469	44.8	ug/Kg
106-47-8	4-Chloroaniline	31.5U	469	31.5	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.6U	469	26.6	ug/Kg
100-01-6	4-Nitroaniline	232U	2340	232	ug/Kg
100-02-7	4-Nitrophenol	132U	2340	132	ug/Kg
83-32-9	Acenaphthene	18.6U	469	18.6	ug/Kg
208-96-8	Acenaphthylene	18.6U	469	18.6	ug/Kg
120-12-7	Anthracene	16.2U	469	16.2	ug/Kg
92-87-5	Benzidine	2340U	2340	2340	ug/Kg
56-55-3	Benzo(a)anthracene	36.7U	469	36.7	ug/Kg
50-32-8	Benzo(a)pyrene	17.5U	469	17.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.2U	469	43.2	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.9U	469	14.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.0U	469	19.0	ug/Kg
65-85-0	Benzoic acid	96.6U	2340	96.6	ug/Kg
100-51-6	Benzyl alcohol	64.1U	469	64.1	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.7U	469	36.7	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.5U	469	34.5	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.3U	469	29.3	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.9U	469	27.9	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:32	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.43U	469	8.43	ug/Kg
218-01-9	Chrysene	20.6U	469	20.6	ug/Kg
84-74-2	Di-n-butyl phthalate	18.6U	469	18.6	ug/Kg
117-84-0	Di-n-octyl phthalate	6.31U	469	6.31	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.3U	469	16.3	ug/Kg
132-64-9	Dibenzofuran	15.2U	469	15.2	ug/Kg
84-66-2	Diethyl phthalate	28.8U	469	28.8	ug/Kg
131-11-3	Dimethyl phthalate	20.0U	469	20.0	ug/Kg
206-44-0	Fluoranthene	9.27U	469	9.27	ug/Kg
86-73-7	Fluorene	18.3U	469	18.3	ug/Kg
118-74-1	Hexachlorobenzene	27.1U	469	27.1	ug/Kg
87-68-3	Hexachlorobutadiene	28.4U	469	28.4	ug/Kg
77-47-4	Hexachlorocyclopentadiene	171U	469	171	ug/Kg
67-72-1	Hexachloroethane	22.6U	469	22.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.9U	469	43.9	ug/Kg
78-59-1	Isophorone	16.5U	469	16.5	ug/Kg
91-20-3	Naphthalene	18.8U	469	18.8	ug/Kg
98-95-3	Nitrobenzene	26.1U	469	26.1	ug/Kg
87-86-5	Pentachlorophenol	179U	2340	179	ug/Kg
85-01-8	Phenanthrene	15.1U	469	15.1	ug/Kg
108-95-2	Phenol	28.1U	469	28.1	ug/Kg
129-00-0	Pyrene	21.7U	469	21.7	ug/Kg
1319-77-3MP	m,p-Cresol	66.2U	469	66.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.5U	469	21.5	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.9U	469	14.9	ug/Kg
95-48-7	o-Cresol	16.6U	469	16.6	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1380	ug/Kg	83	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1450	ug/Kg	88	46 - 122
1718-51-0	Terphenyl-d14	1660	1710	ug/Kg	103	45 - 135
4165-62-2	Phenol-d5	3310	3180	ug/Kg	96	44 - 124
367-12-4	2-Fluorophenol	3310	3030	ug/Kg	92	45 - 114
118-79-6	2,4,6-Tribromophenol	3310	2970	ug/Kg	90	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 14:34	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1820U	5630	1820	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1470	ug/Kg	90	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 23:13	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	750U	5770	750	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1210	1250	ug/Kg	103	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 14:34	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**7430J**	**18700**	**2690**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1480	ug/Kg	90	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:30	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.034**	**0.017**	**0.0049**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/18/2011 15:23	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**13200**	**11.4**	**0.90**	**mg/kg**
7440-36-0	Antimony	0.17U	3.43	0.17	mg/kg
7440-38-2	**Arsenic**	**2.92**	**2.29**	**0.13**	**mg/kg**
7440-39-3	**Barium**	**118**	**0.57**	**0.016**	**mg/kg**
7440-41-7	**Beryllium**	**1.43**	**0.29**	**0.0040**	**mg/kg**
7440-43-9	**Cadmium**	**0.44**	**0.29**	**0.014**	**mg/kg**
7440-70-2	**Calcium**	**95000**	**42.9**	**1.32**	**mg/kg**
7440-47-3	**Chromium**	**17.3**	**0.57**	**0.017**	**mg/kg**
7440-48-4	**Cobalt**	**8.14**	**0.57**	**0.031**	**mg/kg**
7440-50-8	**Copper**	**13.9**	**0.57**	**0.047**	**mg/kg**
7439-89-6	**Iron**	**16700**	**5.72**	**1.30**	**mg/kg**
7439-92-1	**Lead**	**12.9**	**0.86**	**0.10**	**mg/kg**
7439-95-4	**Magnesium**	**17000**	**5.72**	**1.92**	**mg/kg**
7439-96-5	**Manganese**	**255**	**0.86**	**0.056**	**mg/kg**
7440-02-0	**Nickel**	**18.8**	**2.29**	**0.045**	**mg/kg**
7440-09-7	**Potassium**	**3970**	**28.6**	**2.60**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131603	**AOCU-HA43-2**	Solid	07/12/2011 08:05	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/18/2011 15:23	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	**Selenium**	**0.53B**	**2.29**	**0.27**	**mg/kg**
7440-22-4	Silver	0.050U	0.57	0.050	mg/kg
7440-28-0	**Thallium**	**0.30B**	**1.14**	**0.14**	**mg/kg**
7440-62-2	**Vanadium**	**31.7**	**1.14**	**0.071**	**mg/kg**
7440-66-6	**Zinc**	**63.8**	**1.14**	**0.47**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/19/2011 17:44	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**18100**	**57.2**	**5.02**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 16:02	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.037U	0.715	0.037	mg/kg-N

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**30.1**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:28	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.230U	5.35	0.230	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.205U	5.35	0.205	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.211U	5.35	0.211	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.183U	5.35	0.183	ug/Kg
75-34-3	1,1-Dichloroethane	0.188U	5.35	0.188	ug/Kg
75-35-4	1,1-Dichloroethene	0.329U	5.35	0.329	ug/Kg
563-58-6	1,1-Dichloropropene	0.212U	5.35	0.212	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.121U	5.35	0.121	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.176U	5.35	0.176	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.155U	5.35	0.155	ug/Kg
95-63-6	**1,2,4-Trimethylbenzene**	**0.184J**	**5.35**	**0.127**	**ug/Kg**
96-12-8	1,2-Dibromo-3-chloropropane	0.746U	5.35	0.746	ug/Kg
106-93-4	1,2-Dibromoethane	0.586U	5.35	0.586	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.272U	5.35	0.272	ug/Kg
107-06-2	1,2-Dichloroethane	0.195U	5.35	0.195	ug/Kg
78-87-5	1,2-Dichloropropane	0.132U	5.35	0.132	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.122U	5.35	0.122	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.151U	5.35	0.151	ug/Kg
142-28-9	1,3-Dichloropropane	0.143U	5.35	0.143	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.152U	5.35	0.152	ug/Kg
544-10-5	1-Chlorohexane	0.157U	5.35	0.157	ug/Kg
594-20-7	2,2-Dichloropropane	0.325U	5.35	0.325	ug/Kg
78-93-3	**2-Butanone**	**6.03**	**5.35**	**0.680**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.28U	5.35	1.28	ug/Kg
95-49-8	2-Chlorotoluene	0.185U	5.35	0.185	ug/Kg
591-78-6	2-Hexanone	0.757U	5.35	0.757	ug/Kg
106-43-4	4-Chlorotoluene	0.118U	5.35	0.118	ug/Kg
99-87-6	4-Isopropyltoluene	0.091U	5.35	0.091	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.241U	5.35	0.241	ug/Kg
67-64-1	**Acetone**	**12.8J**	**26.8**	**1.16**	**ug/Kg**
75-05-8	Acetonitrile	1.79U	107	1.79	ug/Kg
107-02-8	Acrolein	2.49U	26.8	2.49	ug/Kg
107-13-1	Acrylonitrile	0.621U	26.8	0.621	ug/Kg
107-05-1	Allyl chloride	0.590U	5.35	0.590	ug/Kg
71-43-2	**Benzene**	**6.46**	**5.35**	**0.113**	**ug/Kg**
108-86-1	Bromobenzene	0.157U	5.35	0.157	ug/Kg
74-97-5	Bromochloromethane	0.258U	5.35	0.258	ug/Kg
75-27-4	Bromodichloromethane	0.144U	5.35	0.144	ug/Kg
75-25-2	Bromoform	0.229U	5.35	0.229	ug/Kg
74-83-9	Bromomethane	0.683U	5.35	0.683	ug/Kg
75-15-0	Carbon disulfide	0.386U	5.35	0.386	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:28	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.219U	5.35	0.219	ug/Kg
108-90-7	Chlorobenzene	0.192U	5.35	0.192	ug/Kg
75-00-3	Chloroethane	0.261U	5.35	0.261	ug/Kg
67-66-3	**Chloroform**	**0.776J**	**5.35**	**0.241**	**ug/Kg**
74-87-3	Chloromethane	0.605U	5.35	0.605	ug/Kg
124-48-1	Dibromochloromethane	0.204U	5.35	0.204	ug/Kg
74-95-3	Dibromomethane	0.208U	5.35	0.208	ug/Kg
75-71-8	Dichlorodifluoromethane	0.127U	5.35	0.127	ug/Kg
97-63-2	Ethyl methacrylate	0.461U	5.35	0.461	ug/Kg
100-41-4	Ethylbenzene	0.234U	5.35	0.234	ug/Kg
87-68-3	Hexachlorobutadiene	0.163U	5.35	0.163	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.100U	5.35	0.100	ug/Kg
126-98-7	Methacrylonitrile	0.472U	5.35	0.472	ug/Kg
74-88-4	Methyl iodide	1.32U	5.35	1.32	ug/Kg
80-62-6	Methyl methacrylate	0.855U	5.35	0.855	ug/Kg
75-09-2	Methylene chloride	0.515U	10.7	0.515	ug/Kg
91-20-3	Naphthalene	0.187U	5.35	0.187	ug/Kg
76-01-7	Pentachloroethane	0.874U	5.35	0.874	ug/Kg
107-12-0	Propionitrile	2.72U	5.35	2.72	ug/Kg
100-42-5	Styrene	0.441U	5.35	0.441	ug/Kg
127-18-4	Tetrachloroethene	0.218U	5.35	0.218	ug/Kg
108-88-3	**Toluene**	**4.82J**	**5.35**	**0.283**	**ug/Kg**
79-01-6	Trichloroethene	0.186U	5.35	0.186	ug/Kg
75-69-4	Trichlorofluoromethane	0.218U	5.35	0.218	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.214U	5.35	0.214	ug/Kg
108-05-4	Vinyl acetate	0.236U	5.35	0.236	ug/Kg
75-01-4	Vinyl chloride	0.268U	5.35	0.268	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.138U	5.35	0.138	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.349U	5.35	0.349	ug/Kg
136777-61-2	**m,p-Xylene**	**1.10J**	**5.35**	**0.380**	**ug/Kg**
104-51-8	n-Butylbenzene	0.152U	5.35	0.152	ug/Kg
110-54-3	**n-Hexane**	**3.69J**	**5.35**	**0.345**	**ug/Kg**
103-65-1	n-Propylbenzene	0.118U	5.35	0.118	ug/Kg
95-47-6	**o-Xylene**	**1.38J**	**5.35**	**0.154**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.116U	5.35	0.116	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.256U	5.35	0.256	ug/Kg
98-06-6	tert-Butylbenzene	0.148U	5.35	0.148	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.341U	5.35	0.341	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.508U	5.35	0.508	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.554U	5.35	0.554	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	37.6	37.1	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	37.6	38.7	ug/Kg	103	80 - 121
2037-26-5	Toluene d8	37.6	37.8	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	37.6	41.8	ug/Kg	111	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:28	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.1U	470	16.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.8U	470	15.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8U	470	17.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.8U	470	14.8	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.7U	470	31.7	ug/Kg
88-06-2	2,4,6-Trichlorophenol	112U	470	112	ug/Kg
120-83-2	2,4-Dichlorophenol	50.4U	470	50.4	ug/Kg
105-67-9	2,4-Dimethylphenol	332U	470	332	ug/Kg
51-28-5	2,4-Dinitrophenol	216U	470	216	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.5U	470	28.5	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.9U	470	37.9	ug/Kg
91-58-7	2-Chloronaphthalene	15.1U	470	15.1	ug/Kg
95-57-8	2-Chlorophenol	16.5U	470	16.5	ug/Kg
91-57-6	2-Methylnaphthalene	12.8U	470	12.8	ug/Kg
88-74-4	2-Nitroaniline	34.2U	2350	34.2	ug/Kg
88-75-5	2-Nitrophenol	34.9U	470	34.9	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	436U	939	436	ug/Kg
99-09-2	3-Nitroaniline	31.3U	2350	31.3	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	213U	2350	213	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.3U	470	26.3	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.8U	470	44.8	ug/Kg
106-47-8	4-Chloroaniline	31.6U	470	31.6	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.6U	470	26.6	ug/Kg
100-01-6	4-Nitroaniline	232U	2350	232	ug/Kg
100-02-7	4-Nitrophenol	133U	2350	133	ug/Kg
83-32-9	Acenaphthene	18.6U	470	18.6	ug/Kg
208-96-8	Acenaphthylene	18.6U	470	18.6	ug/Kg
120-12-7	Anthracene	16.2U	470	16.2	ug/Kg
92-87-5	Benzidine	2350U	2350	2350	ug/Kg
56-55-3	Benzo(a)anthracene	36.7U	470	36.7	ug/Kg
50-32-8	Benzo(a)pyrene	17.5U	470	17.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.3U	470	43.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.9U	470	14.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.1U	470	19.1	ug/Kg
65-85-0	Benzoic acid	96.8U	2350	96.8	ug/Kg
100-51-6	Benzyl alcohol	64.2U	470	64.2	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.7U	470	36.7	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.6U	470	34.6	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.3U	470	29.3	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.9U	470	27.9	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 10:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.44U	470	8.44	ug/Kg
218-01-9	Chrysene	20.6U	470	20.6	ug/Kg
84-74-2	Di-n-butyl phthalate	18.6U	470	18.6	ug/Kg
117-84-0	Di-n-octyl phthalate	6.32U	470	6.32	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.4U	470	16.4	ug/Kg
132-64-9	Dibenzofuran	15.2U	470	15.2	ug/Kg
84-66-2	Diethyl phthalate	28.9U	470	28.9	ug/Kg
131-11-3	Dimethyl phthalate	20.1U	470	20.1	ug/Kg
206-44-0	Fluoranthene	9.28U	470	9.28	ug/Kg
86-73-7	Fluorene	18.4U	470	18.4	ug/Kg
118-74-1	Hexachlorobenzene	27.2U	470	27.2	ug/Kg
87-68-3	Hexachlorobutadiene	28.5U	470	28.5	ug/Kg
77-47-4	Hexachlorocyclopentadiene	171U	470	171	ug/Kg
67-72-1	Hexachloroethane	22.6U	470	22.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44.0U	470	44.0	ug/Kg
78-59-1	Isophorone	16.5U	470	16.5	ug/Kg
91-20-3	Naphthalene	18.8U	470	18.8	ug/Kg
98-95-3	Nitrobenzene	26.2U	470	26.2	ug/Kg
87-86-5	Pentachlorophenol	179U	2350	179	ug/Kg
85-01-8	Phenanthrene	15.1U	470	15.1	ug/Kg
108-95-2	Phenol	28.2U	470	28.2	ug/Kg
129-00-0	Pyrene	21.8U	470	21.8	ug/Kg
1319-77-3MP	m,p-Cresol	66.3U	470	66.3	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.5U	470	21.5	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.9U	470	14.9	ug/Kg
95-48-7	o-Cresol	16.7U	470	16.7	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1280	ug/Kg	77	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1370	ug/Kg	82	46 - 122
1718-51-0	Terphenyl-d14	1670	1620	ug/Kg	97	45 - 135
4165-62-2	Phenol-d5	3330	2920	ug/Kg	88	44 - 124
367-12-4	2-Fluorophenol	3330	2830	ug/Kg	85	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2770	ug/Kg	83	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 14:52	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**2780J**	**5600**	**1810**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1440	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/19/2011 23:37	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	902U	6940	902	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1460	1510	ug/Kg	103	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 14:52	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**4750J**	**18600**	**2670**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1460	ug/Kg	89	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:31	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.029**	**0.017**	**0.0048**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 16:10	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**10700**	**22.8**	**1.80**	**mg/kg**
7440-36-0	Antimony	0.34U	6.83	0.34	mg/kg
7440-38-2	**Arsenic**	**3.61B**	**4.55**	**0.25**	**mg/kg**
7440-39-3	**Barium**	**94.2**	**1.14**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.96**	**0.57**	**0.0079**	**mg/kg**
7440-43-9	**Cadmium**	**0.28B**	**0.57**	**0.028**	**mg/kg**
7440-70-2	**Calcium**	**120000**	**85.4**	**2.62**	**mg/kg**
7440-47-3	**Chromium**	**13.8**	**1.14**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**5.62**	**1.14**	**0.062**	**mg/kg**
7440-50-8	**Copper**	**13.1**	**1.14**	**0.093**	**mg/kg**
7439-89-6	**Iron**	**13400**	**11.4**	**2.58**	**mg/kg**
7439-92-1	**Lead**	**10.3**	**1.71**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**15100**	**11.4**	**3.81**	**mg/kg**
7439-96-5	**Manganese**	**185**	**1.71**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**14.0**	**4.55**	**0.089**	**mg/kg**
7440-09-7	**Potassium**	**3040**	**56.9**	**5.18**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131604	**AOCU-HA45-1.5**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 16:10	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.55U	4.55	0.55	mg/kg
7440-22-4	Silver	0.099U	1.14	0.099	mg/kg
7440-28-0	**Thallium**	**0.29B**	**2.28**	**0.28**	**mg/kg**
7440-62-2	**Vanadium**	**25.7**	**2.28**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**46.8**	**2.28**	**0.94**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 17:50	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16600**	**114**	**9.99**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 16:03	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**11.9**	**0.712**	**0.037**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**29.7**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:54	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.241U	5.60	0.241	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.215U	5.60	0.215	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.221U	5.60	0.221	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.192U	5.60	0.192	ug/Kg
75-34-3	1,1-Dichloroethane	0.197U	5.60	0.197	ug/Kg
75-35-4	1,1-Dichloroethene	0.344U	5.60	0.344	ug/Kg
563-58-6	1,1-Dichloropropene	0.222U	5.60	0.222	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.127U	5.60	0.127	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.184U	5.60	0.184	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.163U	5.60	0.163	ug/Kg
95-63-6	**1,2,4-Trimethylbenzene**	**0.135J**	**5.60**	**0.133**	**ug/Kg**
96-12-8	1,2-Dibromo-3-chloropropane	0.781U	5.60	0.781	ug/Kg
106-93-4	1,2-Dibromoethane	0.614U	5.60	0.614	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.285U	5.60	0.285	ug/Kg
107-06-2	1,2-Dichloroethane	0.204U	5.60	0.204	ug/Kg
78-87-5	1,2-Dichloropropane	0.138U	5.60	0.138	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.128U	5.60	0.128	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.158U	5.60	0.158	ug/Kg
142-28-9	1,3-Dichloropropane	0.150U	5.60	0.150	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.159U	5.60	0.159	ug/Kg
544-10-5	1-Chlorohexane	0.165U	5.60	0.165	ug/Kg
594-20-7	2,2-Dichloropropane	0.341U	5.60	0.341	ug/Kg
78-93-3	**2-Butanone**	**6.63**	**5.60**	**0.712**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.34U	5.60	1.34	ug/Kg
95-49-8	2-Chlorotoluene	0.194U	5.60	0.194	ug/Kg
591-78-6	2-Hexanone	0.792U	5.60	0.792	ug/Kg
106-43-4	4-Chlorotoluene	0.123U	5.60	0.123	ug/Kg
99-87-6	4-Isopropyltoluene	0.095U	5.60	0.095	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.252U	5.60	0.252	ug/Kg
67-64-1	**Acetone**	**10.6J**	**28.0**	**1.21**	**ug/Kg**
75-05-8	Acetonitrile	1.87U	112	1.87	ug/Kg
107-02-8	Acrolein	2.61U	28.0	2.61	ug/Kg
107-13-1	Acrylonitrile	0.650U	28.0	0.650	ug/Kg
107-05-1	Allyl chloride	0.618U	5.60	0.618	ug/Kg
71-43-2	**Benzene**	**6.78**	**5.60**	**0.119**	**ug/Kg**
108-86-1	Bromobenzene	0.165U	5.60	0.165	ug/Kg
74-97-5	Bromochloromethane	0.270U	5.60	0.270	ug/Kg
75-27-4	Bromodichloromethane	0.151U	5.60	0.151	ug/Kg
75-25-2	Bromoform	0.240U	5.60	0.240	ug/Kg
74-83-9	Bromomethane	0.715U	5.60	0.715	ug/Kg
75-15-0	Carbon disulfide	0.405U	5.60	0.405	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:54	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.230U	5.60	0.230	ug/Kg
108-90-7	Chlorobenzene	0.201U	5.60	0.201	ug/Kg
75-00-3	Chloroethane	0.273U	5.60	0.273	ug/Kg
67-66-3	**Chloroform**	**0.804J**	**5.60**	**0.252**	**ug/Kg**
74-87-3	Chloromethane	0.633U	5.60	0.633	ug/Kg
124-48-1	Dibromochloromethane	0.214U	5.60	0.214	ug/Kg
74-95-3	Dibromomethane	0.217U	5.60	0.217	ug/Kg
75-71-8	Dichlorodifluoromethane	0.133U	5.60	0.133	ug/Kg
97-63-2	Ethyl methacrylate	0.483U	5.60	0.483	ug/Kg
100-41-4	Ethylbenzene	0.245U	5.60	0.245	ug/Kg
87-68-3	Hexachlorobutadiene	0.170U	5.60	0.170	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.104U	5.60	0.104	ug/Kg
126-98-7	Methacrylonitrile	0.494U	5.60	0.494	ug/Kg
74-88-4	Methyl iodide	1.38U	5.60	1.38	ug/Kg
80-62-6	Methyl methacrylate	0.896U	5.60	0.896	ug/Kg
75-09-2	Methylene chloride	0.539U	11.2	0.539	ug/Kg
91-20-3	Naphthalene	0.196U	5.60	0.196	ug/Kg
76-01-7	Pentachloroethane	0.916U	5.60	0.916	ug/Kg
107-12-0	Propionitrile	2.85U	5.60	2.85	ug/Kg
100-42-5	Styrene	0.462U	5.60	0.462	ug/Kg
127-18-4	Tetrachloroethene	0.229U	5.60	0.229	ug/Kg
108-88-3	**Toluene**	**5.08J**	**5.60**	**0.296**	**ug/Kg**
79-01-6	Trichloroethene	0.195U	5.60	0.195	ug/Kg
75-69-4	Trichlorofluoromethane	0.229U	5.60	0.229	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.224U	5.60	0.224	ug/Kg
108-05-4	Vinyl acetate	0.248U	5.60	0.248	ug/Kg
75-01-4	Vinyl chloride	0.280U	5.60	0.280	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.145U	5.60	0.145	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.365U	5.60	0.365	ug/Kg
136777-61-2	**m,p-Xylene**	**1.01J**	**5.60**	**0.398**	**ug/Kg**
104-51-8	n-Butylbenzene	0.159U	5.60	0.159	ug/Kg
110-54-3	**n-Hexane**	**4.13J**	**5.60**	**0.361**	**ug/Kg**
103-65-1	n-Propylbenzene	0.123U	5.60	0.123	ug/Kg
95-47-6	**o-Xylene**	**1.43J**	**5.60**	**0.161**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.121U	5.60	0.121	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.268U	5.60	0.268	ug/Kg
98-06-6	tert-Butylbenzene	0.155U	5.60	0.155	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.358U	5.60	0.358	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.532U	5.60	0.532	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.581U	5.60	0.581	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	39.1	38.7	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	39.1	39.1	ug/Kg	100	80 - 121
2037-26-5	Toluene d8	39.1	39.2	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	39.1	42.7	ug/Kg	109	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 16:54	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:01	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.1U	471	16.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.8U	471	15.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.8U	471	17.8	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.8U	471	14.8	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.8U	471	31.8	ug/Kg
88-06-2	2,4,6-Trichlorophenol	112U	471	112	ug/Kg
120-83-2	2,4-Dichlorophenol	50.5U	471	50.5	ug/Kg
105-67-9	2,4-Dimethylphenol	333U	471	333	ug/Kg
51-28-5	2,4-Dinitrophenol	217U	471	217	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.6U	471	28.6	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.0U	471	38.0	ug/Kg
91-58-7	2-Chloronaphthalene	15.1U	471	15.1	ug/Kg
95-57-8	2-Chlorophenol	16.6U	471	16.6	ug/Kg
91-57-6	2-Methylnaphthalene	12.8U	471	12.8	ug/Kg
88-74-4	2-Nitroaniline	34.3U	2360	34.3	ug/Kg
88-75-5	2-Nitrophenol	35.0U	471	35.0	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	437U	942	437	ug/Kg
99-09-2	3-Nitroaniline	31.4U	2360	31.4	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	214U	2360	214	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.4U	471	26.4	ug/Kg
59-50-7	4-Chloro-3-methylphenol	45.0U	471	45.0	ug/Kg
106-47-8	4-Chloroaniline	31.7U	471	31.7	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.7U	471	26.7	ug/Kg
100-01-6	4-Nitroaniline	233U	2360	233	ug/Kg
100-02-7	4-Nitrophenol	133U	2360	133	ug/Kg
83-32-9	Acenaphthene	18.7U	471	18.7	ug/Kg
208-96-8	Acenaphthylene	18.7U	471	18.7	ug/Kg
120-12-7	Anthracene	16.3U	471	16.3	ug/Kg
92-87-5	Benzidine	2360U	2360	2360	ug/Kg
56-55-3	Benzo(a)anthracene	36.8U	471	36.8	ug/Kg
50-32-8	Benzo(a)pyrene	17.6U	471	17.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.4U	471	43.4	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.0U	471	15.0	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.1U	471	19.1	ug/Kg
65-85-0	Benzoic acid	97.1U	2360	97.1	ug/Kg
100-51-6	Benzyl alcohol	64.4U	471	64.4	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.8U	471	36.8	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.7U	471	34.7	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.4U	471	29.4	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	28.0U	471	28.0	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:01	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.47U	471	8.47	ug/Kg
218-01-9	Chrysene	20.7U	471	20.7	ug/Kg
84-74-2	Di-n-butyl phthalate	18.7U	471	18.7	ug/Kg
117-84-0	Di-n-octyl phthalate	6.34U	471	6.34	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.4U	471	16.4	ug/Kg
132-64-9	Dibenzofuran	15.3U	471	15.3	ug/Kg
84-66-2	Diethyl phthalate	29.0U	471	29.0	ug/Kg
131-11-3	Dimethyl phthalate	20.1U	471	20.1	ug/Kg
206-44-0	Fluoranthene	9.31U	471	9.31	ug/Kg
86-73-7	Fluorene	18.4U	471	18.4	ug/Kg
118-74-1	Hexachlorobenzene	27.3U	471	27.3	ug/Kg
87-68-3	Hexachlorobutadiene	28.6U	471	28.6	ug/Kg
77-47-4	Hexachlorocyclopentadiene	171U	471	171	ug/Kg
67-72-1	Hexachloroethane	22.7U	471	22.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44.1U	471	44.1	ug/Kg
78-59-1	Isophorone	16.6U	471	16.6	ug/Kg
91-20-3	Naphthalene	18.8U	471	18.8	ug/Kg
98-95-3	Nitrobenzene	26.3U	471	26.3	ug/Kg
87-86-5	Pentachlorophenol	180U	2360	180	ug/Kg
85-01-8	Phenanthrene	15.1U	471	15.1	ug/Kg
108-95-2	Phenol	28.3U	471	28.3	ug/Kg
129-00-0	Pyrene	21.8U	471	21.8	ug/Kg
1319-77-3MP	m,p-Cresol	66.5U	471	66.5	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.6U	471	21.6	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.0U	471	15.0	ug/Kg
95-48-7	o-Cresol	16.7U	471	16.7	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1320	ug/Kg	79	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1390	ug/Kg	84	46 - 122
1718-51-0	Terphenyl-d14	1660	1650	ug/Kg	99	45 - 135
4165-62-2	Phenol-d5	3320	3020	ug/Kg	91	44 - 124
367-12-4	2-Fluorophenol	3320	2860	ug/Kg	86	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	3020	ug/Kg	91	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 15:10	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1820U	5640	1820	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1230	ug/Kg	75	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 00:01	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	790U	6080	790	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1270	1300	ug/Kg	102	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 15:10	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**3040J**	**18700**	**2690**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1240	ug/Kg	76	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:33	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.029**	**0.017**	**0.0049**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/18/2011 15:38	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**14900**	**11.4**	**0.90**	**mg/kg**
7440-36-0	Antimony	0.17U	3.41	0.17	mg/kg
7440-38-2	**Arsenic**	**3.65**	**2.27**	**0.13**	**mg/kg**
7440-39-3	**Barium**	**108**	**0.57**	**0.015**	**mg/kg**
7440-41-7	**Beryllium**	**1.20**	**0.28**	**0.0039**	**mg/kg**
7440-43-9	**Cadmium**	**0.44**	**0.28**	**0.014**	**mg/kg**
7440-70-2	**Calcium**	**97000**	**42.6**	**1.31**	**mg/kg**
7440-47-3	**Chromium**	**17.9**	**0.57**	**0.016**	**mg/kg**
7440-48-4	**Cobalt**	**7.26**	**0.57**	**0.031**	**mg/kg**
7440-50-8	**Copper**	**12.7**	**0.57**	**0.047**	**mg/kg**
7439-89-6	**Iron**	**16700**	**5.68**	**1.29**	**mg/kg**
7439-92-1	**Lead**	**11.3**	**0.85**	**0.10**	**mg/kg**
7439-95-4	**Magnesium**	**16700**	**5.68**	**1.90**	**mg/kg**
7439-96-5	**Manganese**	**327**	**0.85**	**0.055**	**mg/kg**
7440-02-0	**Nickel**	**18.0**	**2.27**	**0.045**	**mg/kg**
7440-09-7	**Potassium**	**4150**	**28.4**	**2.59**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131605	**AOCU-HA45-1.5-A**	Solid	07/12/2011 08:30	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/18/2011 15:38	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	**Selenium**	**0.31B**	**2.27**	**0.27**	**mg/kg**
7440-22-4	Silver	0.050U	0.57	0.050	mg/kg
7440-28-0	**Thallium**	**0.35B**	**1.14**	**0.14**	**mg/kg**
7440-62-2	**Vanadium**	**28.3**	**1.14**	**0.070**	**mg/kg**
7440-66-6	**Zinc**	**58.1**	**1.14**	**0.47**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	1	07/19/2011 17:58	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**16400**	**56.8**	**4.99**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 16:04	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**10.1**	**0.716**	**0.037**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**30.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:21	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.231U	5.36	0.231	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.206U	5.36	0.206	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.211U	5.36	0.211	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.183U	5.36	0.183	ug/Kg
75-34-3	1,1-Dichloroethane	0.189U	5.36	0.189	ug/Kg
75-35-4	1,1-Dichloroethene	0.329U	5.36	0.329	ug/Kg
563-58-6	1,1-Dichloropropene	0.212U	5.36	0.212	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.121U	5.36	0.121	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.176U	5.36	0.176	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.155U	5.36	0.155	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.128U	5.36	0.128	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.747U	5.36	0.747	ug/Kg
106-93-4	1,2-Dibromoethane	0.588U	5.36	0.588	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.272U	5.36	0.272	ug/Kg
107-06-2	1,2-Dichloroethane	0.195U	5.36	0.195	ug/Kg
78-87-5	1,2-Dichloropropane	0.132U	5.36	0.132	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.122U	5.36	0.122	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.151U	5.36	0.151	ug/Kg
142-28-9	1,3-Dichloropropane	0.144U	5.36	0.144	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.152U	5.36	0.152	ug/Kg
544-10-5	1-Chlorohexane	0.158U	5.36	0.158	ug/Kg
594-20-7	2,2-Dichloropropane	0.326U	5.36	0.326	ug/Kg
78-93-3	**2-Butanone**	**8.96**	**5.36**	**0.681**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.29U	5.36	1.29	ug/Kg
95-49-8	2-Chlorotoluene	0.186U	5.36	0.186	ug/Kg
591-78-6	2-Hexanone	0.758U	5.36	0.758	ug/Kg
106-43-4	4-Chlorotoluene	0.118U	5.36	0.118	ug/Kg
99-87-6	4-Isopropyltoluene	0.091U	5.36	0.091	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.241U	5.36	0.241	ug/Kg
67-64-1	**Acetone**	**23.6J**	**26.8**	**1.16**	**ug/Kg**
75-05-8	Acetonitrile	1.79U	107	1.79	ug/Kg
107-02-8	Acrolein	2.50U	26.8	2.50	ug/Kg
107-13-1	Acrylonitrile	0.622U	26.8	0.622	ug/Kg
107-05-1	Allyl chloride	0.591U	5.36	0.591	ug/Kg
71-43-2	**Benzene**	**3.07J**	**5.36**	**0.114**	**ug/Kg**
108-86-1	Bromobenzene	0.158U	5.36	0.158	ug/Kg
74-97-5	Bromochloromethane	0.258U	5.36	0.258	ug/Kg
75-27-4	Bromodichloromethane	0.145U	5.36	0.145	ug/Kg
75-25-2	Bromoform	0.229U	5.36	0.229	ug/Kg
74-83-9	Bromomethane	0.684U	5.36	0.684	ug/Kg
75-15-0	Carbon disulfide	0.387U	5.36	0.387	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:21	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.220U	5.36	0.220	ug/Kg
108-90-7	Chlorobenzene	0.192U	5.36	0.192	ug/Kg
75-00-3	Chloroethane	0.262U	5.36	0.262	ug/Kg
67-66-3	**Chloroform**	**0.743J**	**5.36**	**0.241**	**ug/Kg**
74-87-3	Chloromethane	0.606U	5.36	0.606	ug/Kg
124-48-1	Dibromochloromethane	0.205U	5.36	0.205	ug/Kg
74-95-3	Dibromomethane	0.208U	5.36	0.208	ug/Kg
75-71-8	Dichlorodifluoromethane	0.128U	5.36	0.128	ug/Kg
97-63-2	Ethyl methacrylate	0.462U	5.36	0.462	ug/Kg
100-41-4	Ethylbenzene	0.235U	5.36	0.235	ug/Kg
87-68-3	Hexachlorobutadiene	0.163U	5.36	0.163	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.100U	5.36	0.100	ug/Kg
126-98-7	Methacrylonitrile	0.473U	5.36	0.473	ug/Kg
74-88-4	Methyl iodide	1.32U	5.36	1.32	ug/Kg
80-62-6	Methyl methacrylate	0.857U	5.36	0.857	ug/Kg
75-09-2	Methylene chloride	0.516U	10.7	0.516	ug/Kg
91-20-3	Naphthalene	0.188U	5.36	0.188	ug/Kg
76-01-7	Pentachloroethane	0.876U	5.36	0.876	ug/Kg
107-12-0	Propionitrile	2.72U	5.36	2.72	ug/Kg
100-42-5	Styrene	0.442U	5.36	0.442	ug/Kg
127-18-4	Tetrachloroethene	0.219U	5.36	0.219	ug/Kg
108-88-3	**Toluene**	**2.63J**	**5.36**	**0.283**	**ug/Kg**
79-01-6	Trichloroethene	0.187U	5.36	0.187	ug/Kg
75-69-4	Trichlorofluoromethane	0.219U	5.36	0.219	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.214U	5.36	0.214	ug/Kg
108-05-4	Vinyl acetate	0.237U	5.36	0.237	ug/Kg
75-01-4	Vinyl chloride	0.268U	5.36	0.268	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.138U	5.36	0.138	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.350U	5.36	0.350	ug/Kg
136777-61-2	m,p-Xylene	0.381U	5.36	0.381	ug/Kg
104-51-8	n-Butylbenzene	0.152U	5.36	0.152	ug/Kg
110-54-3	**n-Hexane**	**2.22J**	**5.36**	**0.345**	**ug/Kg**
103-65-1	n-Propylbenzene	0.118U	5.36	0.118	ug/Kg
95-47-6	**o-Xylene**	**1.10J**	**5.36**	**0.154**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.116U	5.36	0.116	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.256U	5.36	0.256	ug/Kg
98-06-6	tert-Butylbenzene	0.148U	5.36	0.148	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.342U	5.36	0.342	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.509U	5.36	0.509	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.555U	5.36	0.555	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	37.9	37.5	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	37.9	38	ug/Kg	100	80 - 121
2037-26-5	Toluene d8	37.9	37.8	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	37.9	40.4	ug/Kg	106	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:21	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:16	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.9U	465	15.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.6U	465	15.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.6U	465	17.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.6U	465	14.6	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.4U	465	31.4	ug/Kg
88-06-2	2,4,6-Trichlorophenol	111U	465	111	ug/Kg
120-83-2	2,4-Dichlorophenol	49.9U	465	49.9	ug/Kg
105-67-9	2,4-Dimethylphenol	328U	465	328	ug/Kg
51-28-5	2,4-Dinitrophenol	214U	465	214	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.2U	465	28.2	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.5U	465	37.5	ug/Kg
91-58-7	2-Chloronaphthalene	14.9U	465	14.9	ug/Kg
95-57-8	2-Chlorophenol	16.3U	465	16.3	ug/Kg
91-57-6	2-Methylnaphthalene	12.6U	465	12.6	ug/Kg
88-74-4	2-Nitroaniline	33.8U	2320	33.8	ug/Kg
88-75-5	2-Nitrophenol	34.5U	465	34.5	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	431U	930	431	ug/Kg
99-09-2	3-Nitroaniline	31.0U	2320	31.0	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	211U	2320	211	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.1U	465	26.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.4U	465	44.4	ug/Kg
106-47-8	4-Chloroaniline	31.3U	465	31.3	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.3U	465	26.3	ug/Kg
100-01-6	4-Nitroaniline	230U	2320	230	ug/Kg
100-02-7	4-Nitrophenol	131U	2320	131	ug/Kg
83-32-9	Acenaphthene	18.5U	465	18.5	ug/Kg
208-96-8	Acenaphthylene	18.5U	465	18.5	ug/Kg
120-12-7	Anthracene	16.1U	465	16.1	ug/Kg
92-87-5	Benzidine	2320U	2320	2320	ug/Kg
56-55-3	Benzo(a)anthracene	36.3U	465	36.3	ug/Kg
50-32-8	Benzo(a)pyrene	17.3U	465	17.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	42.8U	465	42.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.8U	465	14.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.9U	465	18.9	ug/Kg
65-85-0	Benzoic acid	95.8U	2320	95.8	ug/Kg
100-51-6	Benzyl alcohol	63.5U	465	63.5	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.3U	465	36.3	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.2U	465	34.2	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.0U	465	29.0	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.6U	465	27.6	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:16	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.35U	465	8.35	ug/Kg
218-01-9	Chrysene	20.4U	465	20.4	ug/Kg
84-74-2	Di-n-butyl phthalate	18.5U	465	18.5	ug/Kg
117-84-0	Di-n-octyl phthalate	6.25U	465	6.25	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.2U	465	16.2	ug/Kg
132-64-9	Dibenzofuran	15.1U	465	15.1	ug/Kg
84-66-2	Diethyl phthalate	28.6U	465	28.6	ug/Kg
131-11-3	Dimethyl phthalate	19.9U	465	19.9	ug/Kg
206-44-0	Fluoranthene	9.18U	465	9.18	ug/Kg
86-73-7	Fluorene	18.2U	465	18.2	ug/Kg
118-74-1	Hexachlorobenzene	26.9U	465	26.9	ug/Kg
87-68-3	Hexachlorobutadiene	28.2U	465	28.2	ug/Kg
77-47-4	Hexachlorocyclopentadiene	169U	465	169	ug/Kg
67-72-1	Hexachloroethane	22.4U	465	22.4	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.5U	465	43.5	ug/Kg
78-59-1	Isophorone	16.3U	465	16.3	ug/Kg
91-20-3	Naphthalene	18.6U	465	18.6	ug/Kg
98-95-3	Nitrobenzene	25.9U	465	25.9	ug/Kg
87-86-5	Pentachlorophenol	177U	2320	177	ug/Kg
85-01-8	Phenanthrene	14.9U	465	14.9	ug/Kg
108-95-2	Phenol	27.9U	465	27.9	ug/Kg
129-00-0	Pyrene	21.6U	465	21.6	ug/Kg
1319-77-3MP	m,p-Cresol	65.6U	465	65.6	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.3U	465	21.3	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.8U	465	14.8	ug/Kg
95-48-7	o-Cresol	16.5U	465	16.5	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1370	ug/Kg	82	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1430	ug/Kg	86	46 - 122
1718-51-0	Terphenyl-d14	1660	1550	ug/Kg	93	45 - 135
4165-62-2	Phenol-d5	3320	3080	ug/Kg	93	44 - 124
367-12-4	2-Fluorophenol	3320	3000	ug/Kg	90	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	3270	ug/Kg	98	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 16:05	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1810U	5620	1810	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1490	ug/Kg	90	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 00:25	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	731U	5630	731	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1190	1180	ug/Kg	99	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 16:05	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**2940J**	**18700**	**2680**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1500	ug/Kg	91	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:34	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.022**	**0.017**	**0.0048**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:45	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**6440**	**22.6**	**1.78**	**mg/kg**
7440-36-0	Antimony	0.33U	6.78	0.33	mg/kg
7440-38-2	**Arsenic**	**2.00B**	**4.52**	**0.25**	**mg/kg**
7440-39-3	**Barium**	**53.3**	**1.13**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.46B**	**0.57**	**0.0078**	**mg/kg**
7440-43-9	**Cadmium**	**0.34B**	**0.57**	**0.028**	**mg/kg**
7440-70-2	**Calcium**	**181000**	**84.8**	**2.60**	**mg/kg**
7440-47-3	**Chromium**	**7.85**	**1.13**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**2.97**	**1.13**	**0.062**	**mg/kg**
7440-50-8	**Copper**	**7.28**	**1.13**	**0.093**	**mg/kg**
7439-89-6	**Iron**	**6920**	**11.3**	**2.56**	**mg/kg**
7439-92-1	**Lead**	**5.50**	**1.70**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**10600**	**11.3**	**3.79**	**mg/kg**
7439-96-5	**Manganese**	**141**	**1.70**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**7.25**	**4.52**	**0.089**	**mg/kg**
7440-09-7	**Potassium**	**2040**	**56.5**	**5.14**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131606	**AOCU-HA47-2**	Solid	07/12/2011 09:00	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:45	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.54U	4.52	0.54	mg/kg
7440-22-4	Silver	0.099U	1.13	0.099	mg/kg
7440-28-0	Thallium	0.28U	2.26	0.28	mg/kg
7440-62-2	**Vanadium**	**14.7**	**2.26**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**26.0**	**2.26**	**0.94**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 18:04	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**17100**	**113**	**9.92**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	1	07/15/2011 16:06	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**4.29**	**0.707**	**0.037**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**29.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:48	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.239U	5.55	0.239	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.213U	5.55	0.213	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.219U	5.55	0.219	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.190U	5.55	0.190	ug/Kg
75-34-3	1,1-Dichloroethane	0.195U	5.55	0.195	ug/Kg
75-35-4	1,1-Dichloroethene	0.341U	5.55	0.341	ug/Kg
563-58-6	1,1-Dichloropropene	0.220U	5.55	0.220	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.125U	5.55	0.125	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.182U	5.55	0.182	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.161U	5.55	0.161	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.132U	5.55	0.132	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.774U	5.55	0.774	ug/Kg
106-93-4	1,2-Dibromoethane	0.608U	5.55	0.608	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.282U	5.55	0.282	ug/Kg
107-06-2	1,2-Dichloroethane	0.202U	5.55	0.202	ug/Kg
78-87-5	1,2-Dichloropropane	0.137U	5.55	0.137	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.127U	5.55	0.127	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.156U	5.55	0.156	ug/Kg
142-28-9	1,3-Dichloropropane	0.149U	5.55	0.149	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.158U	5.55	0.158	ug/Kg
544-10-5	1-Chlorohexane	0.163U	5.55	0.163	ug/Kg
594-20-7	2,2-Dichloropropane	0.337U	5.55	0.337	ug/Kg
78-93-3	**2-Butanone**	**6.01**	**5.55**	**0.705**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.33U	5.55	1.33	ug/Kg
95-49-8	2-Chlorotoluene	0.192U	5.55	0.192	ug/Kg
591-78-6	2-Hexanone	0.785U	5.55	0.785	ug/Kg
106-43-4	4-Chlorotoluene	0.122U	5.55	0.122	ug/Kg
99-87-6	4-Isopropyltoluene	0.094U	5.55	0.094	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.250U	5.55	0.250	ug/Kg
67-64-1	**Acetone**	**12.7J**	**27.7**	**1.20**	**ug/Kg**
75-05-8	Acetonitrile	1.85U	111	1.85	ug/Kg
107-02-8	Acrolein	2.59U	27.7	2.59	ug/Kg
107-13-1	Acrylonitrile	0.644U	27.7	0.644	ug/Kg
107-05-1	Allyl chloride	0.612U	5.55	0.612	ug/Kg
71-43-2	**Benzene**	**2.07J**	**5.55**	**0.118**	**ug/Kg**
108-86-1	Bromobenzene	0.163U	5.55	0.163	ug/Kg
74-97-5	Bromochloromethane	0.267U	5.55	0.267	ug/Kg
75-27-4	Bromodichloromethane	0.150U	5.55	0.150	ug/Kg
75-25-2	Bromoform	0.238U	5.55	0.238	ug/Kg
74-83-9	Bromomethane	0.708U	5.55	0.708	ug/Kg
75-15-0	Carbon disulfide	0.401U	5.55	0.401	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:48	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.228U	5.55	0.228	ug/Kg
108-90-7	Chlorobenzene	0.199U	5.55	0.199	ug/Kg
75-00-3	Chloroethane	0.271U	5.55	0.271	ug/Kg
67-66-3	**Chloroform**	**0.785J**	**5.55**	**0.250**	**ug/Kg**
74-87-3	Chloromethane	0.627U	5.55	0.627	ug/Kg
124-48-1	Dibromochloromethane	0.212U	5.55	0.212	ug/Kg
74-95-3	Dibromomethane	0.215U	5.55	0.215	ug/Kg
75-71-8	Dichlorodifluoromethane	0.132U	5.55	0.132	ug/Kg
97-63-2	Ethyl methacrylate	0.478U	5.55	0.478	ug/Kg
100-41-4	Ethylbenzene	0.243U	5.55	0.243	ug/Kg
87-68-3	Hexachlorobutadiene	0.169U	5.55	0.169	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.103U	5.55	0.103	ug/Kg
126-98-7	Methacrylonitrile	0.489U	5.55	0.489	ug/Kg
74-88-4	Methyl iodide	1.37U	5.55	1.37	ug/Kg
80-62-6	Methyl methacrylate	0.887U	5.55	0.887	ug/Kg
75-09-2	Methylene chloride	0.534U	11.1	0.534	ug/Kg
91-20-3	Naphthalene	0.194U	5.55	0.194	ug/Kg
76-01-7	Pentachloroethane	0.907U	5.55	0.907	ug/Kg
107-12-0	Propionitrile	2.82U	5.55	2.82	ug/Kg
100-42-5	Styrene	0.457U	5.55	0.457	ug/Kg
127-18-4	Tetrachloroethene	0.226U	5.55	0.226	ug/Kg
108-88-3	**Toluene**	**1.67J**	**5.55**	**0.293**	**ug/Kg**
79-01-6	Trichloroethene	0.193U	5.55	0.193	ug/Kg
75-69-4	Trichlorofluoromethane	0.226U	5.55	0.226	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.222U	5.55	0.222	ug/Kg
108-05-4	Vinyl acetate	0.245U	5.55	0.245	ug/Kg
75-01-4	Vinyl chloride	0.277U	5.55	0.277	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.143U	5.55	0.143	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.362U	5.55	0.362	ug/Kg
136777-61-2	m,p-Xylene	0.394U	5.55	0.394	ug/Kg
104-51-8	n-Butylbenzene	0.158U	5.55	0.158	ug/Kg
110-54-3	**n-Hexane**	**1.17J**	**5.55**	**0.357**	**ug/Kg**
103-65-1	n-Propylbenzene	0.122U	5.55	0.122	ug/Kg
95-47-6	**o-Xylene**	**0.979J**	**5.55**	**0.160**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.120U	5.55	0.120	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.265U	5.55	0.265	ug/Kg
98-06-6	tert-Butylbenzene	0.153U	5.55	0.153	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.354U	5.55	0.354	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.527U	5.55	0.527	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.575U	5.55	0.575	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	37.5	36.6	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	37.5	37.6	ug/Kg	100	80 - 121
2037-26-5	Toluene d8	37.5	37.7	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	37.5	39.5	ug/Kg	105	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 17:48	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:31	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.5U	481	16.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	16.2U	481	16.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.2U	481	18.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	15.1U	481	15.1	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.5U	481	32.5	ug/Kg
88-06-2	2,4,6-Trichlorophenol	115U	481	115	ug/Kg
120-83-2	2,4-Dichlorophenol	51.6U	481	51.6	ug/Kg
105-67-9	2,4-Dimethylphenol	339U	481	339	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	481	221	ug/Kg
121-14-2	2,4-Dinitrotoluene	29.1U	481	29.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7U	481	38.7	ug/Kg
91-58-7	2-Chloronaphthalene	15.4U	481	15.4	ug/Kg
95-57-8	2-Chlorophenol	16.9U	481	16.9	ug/Kg
91-57-6	2-Methylnaphthalene	13.0U	481	13.0	ug/Kg
88-74-4	2-Nitroaniline	35.0U	2400	35.0	ug/Kg
88-75-5	2-Nitrophenol	35.7U	481	35.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	446U	961	446	ug/Kg
99-09-2	3-Nitroaniline	32.0U	2400	32.0	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	218U	2400	218	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.9U	481	26.9	ug/Kg
59-50-7	4-Chloro-3-methylphenol	45.9U	481	45.9	ug/Kg
106-47-8	4-Chloroaniline	32.3U	481	32.3	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.2U	481	27.2	ug/Kg
100-01-6	4-Nitroaniline	237U	2400	237	ug/Kg
100-02-7	4-Nitrophenol	136U	2400	136	ug/Kg
83-32-9	Acenaphthene	19.1U	481	19.1	ug/Kg
208-96-8	Acenaphthylene	19.1U	481	19.1	ug/Kg
120-12-7	Anthracene	16.6U	481	16.6	ug/Kg
92-87-5	Benzidine	2400U	2400	2400	ug/Kg
56-55-3	Benzo(a)anthracene	37.6U	481	37.6	ug/Kg
50-32-8	Benzo(a)pyrene	17.9U	481	17.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	44.3U	481	44.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.3U	481	15.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.5U	481	19.5	ug/Kg
65-85-0	Benzoic acid	99.0U	2400	99.0	ug/Kg
100-51-6	Benzyl alcohol	65.7U	481	65.7	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	37.6U	481	37.6	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	35.4U	481	35.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	30.0U	481	30.0	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	28.5U	481	28.5	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:31	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.64U	481	8.64	ug/Kg
218-01-9	Chrysene	21.1U	481	21.1	ug/Kg
84-74-2	Di-n-butyl phthalate	19.1U	481	19.1	ug/Kg
117-84-0	Di-n-octyl phthalate	6.47U	481	6.47	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.7U	481	16.7	ug/Kg
132-64-9	Dibenzofuran	15.6U	481	15.6	ug/Kg
84-66-2	Diethyl phthalate	29.6U	481	29.6	ug/Kg
131-11-3	Dimethyl phthalate	20.5U	481	20.5	ug/Kg
206-44-0	Fluoranthene	9.50U	481	9.50	ug/Kg
86-73-7	Fluorene	18.8U	481	18.8	ug/Kg
118-74-1	Hexachlorobenzene	27.8U	481	27.8	ug/Kg
87-68-3	Hexachlorobutadiene	29.1U	481	29.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	175U	481	175	ug/Kg
67-72-1	Hexachloroethane	23.2U	481	23.2	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45.0U	481	45.0	ug/Kg
78-59-1	Isophorone	16.9U	481	16.9	ug/Kg
91-20-3	Naphthalene	19.2U	481	19.2	ug/Kg
98-95-3	Nitrobenzene	26.8U	481	26.8	ug/Kg
87-86-5	Pentachlorophenol	183U	2400	183	ug/Kg
85-01-8	Phenanthrene	15.4U	481	15.4	ug/Kg
108-95-2	Phenol	28.8U	481	28.8	ug/Kg
129-00-0	Pyrene	22.3U	481	22.3	ug/Kg
1319-77-3MP	m,p-Cresol	67.9U	481	67.9	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	22.0U	481	22.0	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.3U	481	15.3	ug/Kg
95-48-7	o-Cresol	17.0U	481	17.0	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	1280	ug/Kg	78	41 - 123
321-60-8	2-Fluorobiphenyl	1640	1350	ug/Kg	82	46 - 122
1718-51-0	Terphenyl-d14	1640	1520	ug/Kg	93	45 - 135
4165-62-2	Phenol-d5	3280	2930	ug/Kg	89	44 - 124
367-12-4	2-Fluorophenol	3280	2770	ug/Kg	84	45 - 114
118-79-6	2,4,6-Tribromophenol	3280	3020	ug/Kg	92	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 10:30	460766	3550B	1	07/19/2011 17:25	DLB	461409

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1910U	5920	1910	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1410	ug/Kg	85	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 00:49	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	1030U	7960	1030	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1610	1630	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 10:30	461191	3550B	1	07/19/2011 17:25	DLB	461410

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2830U	19700	2830	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1420	ug/Kg	85	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:36	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.017B**	**0.017**	**0.0050**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:52	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**2210**	**23.7**	**1.87**	**mg/kg**
7440-36-0	**Antimony**	**0.54B**	**7.11**	**0.35**	**mg/kg**
7440-38-2	**Arsenic**	**0.78B**	**4.74**	**0.26**	**mg/kg**
7440-39-3	**Barium**	**22.7**	**1.18**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**0.041B**	**0.59**	**0.0082**	**mg/kg**
7440-43-9	**Cadmium**	**0.15B**	**0.59**	**0.029**	**mg/kg**
7440-70-2	**Calcium**	**163000**	**88.8**	**2.73**	**mg/kg**
7440-47-3	**Chromium**	**2.40**	**1.18**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**0.78B**	**1.18**	**0.065**	**mg/kg**
7440-50-8	**Copper**	**3.23**	**1.18**	**0.097**	**mg/kg**
7439-89-6	**Iron**	**2200**	**11.8**	**2.68**	**mg/kg**
7439-92-1	**Lead**	**1.97**	**1.78**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**5740**	**11.8**	**3.97**	**mg/kg**
7439-96-5	**Manganese**	**46.2**	**1.78**	**0.12**	**mg/kg**
7440-02-0	**Nickel**	**1.37B**	**4.74**	**0.093**	**mg/kg**
7440-09-7	**Potassium**	**851**	**59.2**	**5.39**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131607	**AOCU-HA50-2**	Solid	07/12/2011 09:20	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:52	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.57U	4.74	0.57	mg/kg
7440-22-4	Silver	0.10U	1.18	0.10	mg/kg
7440-28-0	Thallium	0.29U	2.37	0.29	mg/kg
7440-62-2	**Vanadium**	**7.70**	**2.37**	**0.15**	**mg/kg**
7440-66-6	**Zinc**	**7.95**	**2.37**	**0.98**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 18:10	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**5850**	**118**	**10.4**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	5	07/15/2011 17:10	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**13.5**	**3.70**	**0.192**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**32.5**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:15	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.305U	7.10	0.305	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.273U	7.10	0.273	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.280U	7.10	0.280	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.243U	7.10	0.243	ug/Kg
75-34-3	1,1-Dichloroethane	0.250U	7.10	0.250	ug/Kg
75-35-4	1,1-Dichloroethene	0.436U	7.10	0.436	ug/Kg
563-58-6	1,1-Dichloropropene	0.281U	7.10	0.281	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.160U	7.10	0.160	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.233U	7.10	0.233	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.206U	7.10	0.206	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.169U	7.10	0.169	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.989U	7.10	0.989	ug/Kg
106-93-4	1,2-Dibromoethane	0.778U	7.10	0.778	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.361U	7.10	0.361	ug/Kg
107-06-2	1,2-Dichloroethane	0.258U	7.10	0.258	ug/Kg
78-87-5	1,2-Dichloropropane	0.175U	7.10	0.175	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.162U	7.10	0.162	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.200U	7.10	0.200	ug/Kg
142-28-9	1,3-Dichloropropane	0.190U	7.10	0.190	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.202U	7.10	0.202	ug/Kg
544-10-5	1-Chlorohexane	0.209U	7.10	0.209	ug/Kg
594-20-7	2,2-Dichloropropane	0.431U	7.10	0.431	ug/Kg
78-93-3	**2-Butanone**	**7.90**	**7.10**	**0.901**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.70U	7.10	1.70	ug/Kg
95-49-8	2-Chlorotoluene	0.246U	7.10	0.246	ug/Kg
591-78-6	2-Hexanone	1.00U	7.10	1.00	ug/Kg
106-43-4	4-Chlorotoluene	0.156U	7.10	0.156	ug/Kg
99-87-6	4-Isopropyltoluene	0.121U	7.10	0.121	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.319U	7.10	0.319	ug/Kg
67-64-1	**Acetone**	**18.7J**	**35.5**	**1.53**	**ug/Kg**
75-05-8	Acetonitrile	2.37U	142	2.37	ug/Kg
107-02-8	Acrolein	3.31U	35.5	3.31	ug/Kg
107-13-1	Acrylonitrile	0.823U	35.5	0.823	ug/Kg
107-05-1	Allyl chloride	0.782U	7.10	0.782	ug/Kg
71-43-2	**Benzene**	**0.828J**	**7.10**	**0.150**	**ug/Kg**
108-86-1	Bromobenzene	0.209U	7.10	0.209	ug/Kg
74-97-5	Bromochloromethane	0.342U	7.10	0.342	ug/Kg
75-27-4	Bromodichloromethane	0.192U	7.10	0.192	ug/Kg
75-25-2	Bromoform	0.304U	7.10	0.304	ug/Kg
74-83-9	Bromomethane	0.906U	7.10	0.906	ug/Kg
75-15-0	Carbon disulfide	0.512U	7.10	0.512	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:15	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.291U	7.10	0.291	ug/Kg
108-90-7	Chlorobenzene	0.254U	7.10	0.254	ug/Kg
75-00-3	Chloroethane	0.346U	7.10	0.346	ug/Kg
67-66-3	**Chloroform**	**0.888J**	**7.10**	**0.319**	**ug/Kg**
74-87-3	Chloromethane	0.802U	7.10	0.802	ug/Kg
124-48-1	Dibromochloromethane	0.271U	7.10	0.271	ug/Kg
74-95-3	Dibromomethane	0.275U	7.10	0.275	ug/Kg
75-71-8	Dichlorodifluoromethane	0.169U	7.10	0.169	ug/Kg
97-63-2	Ethyl methacrylate	0.612U	7.10	0.612	ug/Kg
100-41-4	Ethylbenzene	0.311U	7.10	0.311	ug/Kg
87-68-3	Hexachlorobutadiene	0.216U	7.10	0.216	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.132U	7.10	0.132	ug/Kg
126-98-7	Methacrylonitrile	0.626U	7.10	0.626	ug/Kg
74-88-4	Methyl iodide	1.75U	7.10	1.75	ug/Kg
80-62-6	Methyl methacrylate	1.13U	7.10	1.13	ug/Kg
75-09-2	Methylene chloride	0.683U	14.2	0.683	ug/Kg
91-20-3	Naphthalene	0.248U	7.10	0.248	ug/Kg
76-01-7	Pentachloroethane	1.16U	7.10	1.16	ug/Kg
107-12-0	Propionitrile	3.61U	7.10	3.61	ug/Kg
100-42-5	Styrene	0.585U	7.10	0.585	ug/Kg
127-18-4	Tetrachloroethene	0.290U	7.10	0.290	ug/Kg
108-88-3	**Toluene**	**0.490J**	**7.10**	**0.375**	**ug/Kg**
79-01-6	Trichloroethene	0.247U	7.10	0.247	ug/Kg
75-69-4	Trichlorofluoromethane	0.290U	7.10	0.290	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.284U	7.10	0.284	ug/Kg
108-05-4	Vinyl acetate	0.314U	7.10	0.314	ug/Kg
75-01-4	Vinyl chloride	0.355U	7.10	0.355	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.183U	7.10	0.183	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.463U	7.10	0.463	ug/Kg
136777-61-2	m,p-Xylene	0.504U	7.10	0.504	ug/Kg
104-51-8	n-Butylbenzene	0.202U	7.10	0.202	ug/Kg
110-54-3	**n-Hexane**	**0.491J**	**7.10**	**0.457**	**ug/Kg**
103-65-1	n-Propylbenzene	0.156U	7.10	0.156	ug/Kg
95-47-6	**o-Xylene**	**1.06J**	**7.10**	**0.204**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.153U	7.10	0.153	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.339U	7.10	0.339	ug/Kg
98-06-6	tert-Butylbenzene	0.196U	7.10	0.196	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.453U	7.10	0.453	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.674U	7.10	0.674	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.735U	7.10	0.735	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	47.8	46.6	ug/Kg	97	59 - 148
1868-53-7	Dibromofluoromethane	47.8	47.4	ug/Kg	99	80 - 121
2037-26-5	Toluene d8	47.8	47.9	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	47.8	50.5	ug/Kg	106	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:15	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.7U	488	16.7	ug/Kg
95-50-1	1,2-Dichlorobenzene	16.4U	488	16.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.5U	488	18.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	15.4U	488	15.4	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.0U	488	33.0	ug/Kg
88-06-2	2,4,6-Trichlorophenol	116U	488	116	ug/Kg
120-83-2	2,4-Dichlorophenol	52.4U	488	52.4	ug/Kg
105-67-9	2,4-Dimethylphenol	345U	488	345	ug/Kg
51-28-5	2,4-Dinitrophenol	225U	488	225	ug/Kg
121-14-2	2,4-Dinitrotoluene	29.6U	488	29.6	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.4U	488	39.4	ug/Kg
91-58-7	2-Chloronaphthalene	15.7U	488	15.7	ug/Kg
95-57-8	2-Chlorophenol	17.2U	488	17.2	ug/Kg
91-57-6	2-Methylnaphthalene	13.3U	488	13.3	ug/Kg
88-74-4	2-Nitroaniline	35.5U	2440	35.5	ug/Kg
88-75-5	2-Nitrophenol	36.3U	488	36.3	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	453U	977	453	ug/Kg
99-09-2	3-Nitroaniline	32.6U	2440	32.6	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	222U	2440	222	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	27.4U	488	27.4	ug/Kg
59-50-7	4-Chloro-3-methylphenol	46.6U	488	46.6	ug/Kg
106-47-8	4-Chloroaniline	32.8U	488	32.8	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.7U	488	27.7	ug/Kg
100-01-6	4-Nitroaniline	241U	2440	241	ug/Kg
100-02-7	4-Nitrophenol	138U	2440	138	ug/Kg
83-32-9	Acenaphthene	19.4U	488	19.4	ug/Kg
208-96-8	Acenaphthylene	19.4U	488	19.4	ug/Kg
120-12-7	Anthracene	16.9U	488	16.9	ug/Kg
92-87-5	Benzidine	2440U	2440	2440	ug/Kg
56-55-3	Benzo(a)anthracene	38.2U	488	38.2	ug/Kg
50-32-8	Benzo(a)pyrene	18.2U	488	18.2	ug/Kg
205-99-2	Benzo(b)fluoranthene	45.0U	488	45.0	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.5U	488	15.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.8U	488	19.8	ug/Kg
65-85-0	Benzoic acid	101U	2440	101	ug/Kg
100-51-6	Benzyl alcohol	66.7U	488	66.7	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	38.2U	488	38.2	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	36.0U	488	36.0	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	30.5U	488	30.5	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	29.0U	488	29.0	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 11:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.77U	488	8.77	ug/Kg
218-01-9	Chrysene	21.5U	488	21.5	ug/Kg
84-74-2	Di-n-butyl phthalate	19.4U	488	19.4	ug/Kg
117-84-0	Di-n-octyl phthalate	6.57U	488	6.57	ug/Kg
53-70-3	Dibenz(a,h)anthracene	17.0U	488	17.0	ug/Kg
132-64-9	Dibenzofuran	15.8U	488	15.8	ug/Kg
84-66-2	Diethyl phthalate	30.0U	488	30.0	ug/Kg
131-11-3	Dimethyl phthalate	20.9U	488	20.9	ug/Kg
206-44-0	Fluoranthene	9.65U	488	9.65	ug/Kg
86-73-7	Fluorene	19.1U	488	19.1	ug/Kg
118-74-1	Hexachlorobenzene	28.3U	488	28.3	ug/Kg
87-68-3	Hexachlorobutadiene	29.6U	488	29.6	ug/Kg
77-47-4	Hexachlorocyclopentadiene	178U	488	178	ug/Kg
67-72-1	Hexachloroethane	23.5U	488	23.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45.7U	488	45.7	ug/Kg
78-59-1	Isophorone	17.2U	488	17.2	ug/Kg
91-20-3	Naphthalene	19.5U	488	19.5	ug/Kg
98-95-3	Nitrobenzene	27.2U	488	27.2	ug/Kg
87-86-5	Pentachlorophenol	186U	2440	186	ug/Kg
85-01-8	Phenanthrene	15.7U	488	15.7	ug/Kg
108-95-2	Phenol	29.3U	488	29.3	ug/Kg
129-00-0	Pyrene	22.6U	488	22.6	ug/Kg
1319-77-3MP	m,p-Cresol	69.0U	488	69.0	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	22.3U	488	22.3	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.5U	488	15.5	ug/Kg
95-48-7	o-Cresol	17.3U	488	17.3	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1340	ug/Kg	81	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1390	ug/Kg	84	46 - 122
1718-51-0	Terphenyl-d14	1660	1480	ug/Kg	89	45 - 135
4165-62-2	Phenol-d5	3320	2960	ug/Kg	89	44 - 124
367-12-4	2-Fluorophenol	3320	2970	ug/Kg	89	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	3260	ug/Kg	98	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 16:22	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1880U	5840	1880	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1320	ug/Kg	81	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 01:13	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	811U	6240	811	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1260	1270	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 16:22	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**3930J**	**19400**	**2790**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1330	ug/Kg	81	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:38	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.016B**	**0.018**	**0.0051**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:58	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1420**	**23.6**	**1.86**	**mg/kg**
7440-36-0	**Antimony**	**0.74B**	**7.07**	**0.35**	**mg/kg**
7440-38-2	Arsenic	0.26U	4.71	0.26	mg/kg
7440-39-3	**Barium**	**18.4**	**1.18**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**0.025B**	**0.59**	**0.0082**	**mg/kg**
7440-43-9	**Cadmium**	**0.29B**	**0.59**	**0.029**	**mg/kg**
7440-70-2	**Calcium**	**191000**	**88.4**	**2.71**	**mg/kg**
7440-47-3	**Chromium**	**1.29**	**1.18**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**0.64B**	**1.18**	**0.064**	**mg/kg**
7440-50-8	**Copper**	**2.43**	**1.18**	**0.097**	**mg/kg**
7439-89-6	**Iron**	**1290**	**11.8**	**2.67**	**mg/kg**
7439-92-1	**Lead**	**0.96B**	**1.77**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**5800**	**11.8**	**3.95**	**mg/kg**
7439-96-5	**Manganese**	**33.8**	**1.77**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**0.84B**	**4.71**	**0.092**	**mg/kg**
7440-09-7	**Potassium**	**592**	**58.9**	**5.36**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131608	**AOCU-HA56-1**	Solid	07/12/2011 10:35	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 15:58	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.57U	4.71	0.57	mg/kg
7440-22-4	Silver	0.10U	1.18	0.10	mg/kg
7440-28-0	Thallium	0.29U	2.36	0.29	mg/kg
7440-62-2	**Vanadium**	**3.85**	**2.36**	**0.15**	**mg/kg**
7440-66-6	**Zinc**	**4.48**	**2.36**	**0.98**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 18:16	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**8560**	**118**	**10.3**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	5	07/15/2011 17:16	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**43.0**	**3.71**	**0.193**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**32.6**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:41	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.257U	5.99	0.257	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.230U	5.99	0.230	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.236U	5.99	0.236	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.205U	5.99	0.205	ug/Kg
75-34-3	1,1-Dichloroethane	0.211U	5.99	0.211	ug/Kg
75-35-4	1,1-Dichloroethene	0.367U	5.99	0.367	ug/Kg
563-58-6	1,1-Dichloropropene	0.237U	5.99	0.237	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.135U	5.99	0.135	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.196U	5.99	0.196	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.174U	5.99	0.174	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.142U	5.99	0.142	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.834U	5.99	0.834	ug/Kg
106-93-4	1,2-Dibromoethane	0.656U	5.99	0.656	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.304U	5.99	0.304	ug/Kg
107-06-2	1,2-Dichloroethane	0.218U	5.99	0.218	ug/Kg
78-87-5	1,2-Dichloropropane	0.147U	5.99	0.147	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.136U	5.99	0.136	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.169U	5.99	0.169	ug/Kg
142-28-9	1,3-Dichloropropane	0.160U	5.99	0.160	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.170U	5.99	0.170	ug/Kg
544-10-5	1-Chlorohexane	0.176U	5.99	0.176	ug/Kg
594-20-7	2,2-Dichloropropane	0.364U	5.99	0.364	ug/Kg
78-93-3	**2-Butanone**	**9.94**	**5.99**	**0.760**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.44U	5.99	1.44	ug/Kg
95-49-8	2-Chlorotoluene	0.207U	5.99	0.207	ug/Kg
591-78-6	2-Hexanone	0.846U	5.99	0.846	ug/Kg
106-43-4	4-Chlorotoluene	0.132U	5.99	0.132	ug/Kg
99-87-6	4-Isopropyltoluene	0.102U	5.99	0.102	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.269U	5.99	0.269	ug/Kg
67-64-1	**Acetone**	**38.7**	**29.9**	**1.29**	**ug/Kg**
75-05-8	Acetonitrile	2.00U	120	2.00	ug/Kg
107-02-8	Acrolein	2.79U	29.9	2.79	ug/Kg
107-13-1	Acrylonitrile	0.694U	29.9	0.694	ug/Kg
107-05-1	Allyl chloride	0.660U	5.99	0.660	ug/Kg
71-43-2	**Benzene**	**1.02J**	**5.99**	**0.127**	**ug/Kg**
108-86-1	Bromobenzene	0.176U	5.99	0.176	ug/Kg
74-97-5	Bromochloromethane	0.288U	5.99	0.288	ug/Kg
75-27-4	Bromodichloromethane	0.162U	5.99	0.162	ug/Kg
75-25-2	Bromoform	0.256U	5.99	0.256	ug/Kg
74-83-9	Bromomethane	0.764U	5.99	0.764	ug/Kg
75-15-0	Carbon disulfide	0.432U	5.99	0.432	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:41	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.245U	5.99	0.245	ug/Kg
108-90-7	Chlorobenzene	0.214U	5.99	0.214	ug/Kg
75-00-3	Chloroethane	0.292U	5.99	0.292	ug/Kg
67-66-3	**Chloroform**	**0.861J**	**5.99**	**0.269**	**ug/Kg**
74-87-3	Chloromethane	0.676U	5.99	0.676	ug/Kg
124-48-1	Dibromochloromethane	0.229U	5.99	0.229	ug/Kg
74-95-3	Dibromomethane	0.232U	5.99	0.232	ug/Kg
75-71-8	Dichlorodifluoromethane	0.142U	5.99	0.142	ug/Kg
97-63-2	Ethyl methacrylate	0.516U	5.99	0.516	ug/Kg
100-41-4	Ethylbenzene	0.262U	5.99	0.262	ug/Kg
87-68-3	Hexachlorobutadiene	0.182U	5.99	0.182	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.112U	5.99	0.112	ug/Kg
126-98-7	Methacrylonitrile	0.528U	5.99	0.528	ug/Kg
74-88-4	Methyl iodide	1.47U	5.99	1.47	ug/Kg
80-62-6	Methyl methacrylate	0.956U	5.99	0.956	ug/Kg
75-09-2	Methylene chloride	0.576U	12.0	0.576	ug/Kg
91-20-3	Naphthalene	0.209U	5.99	0.209	ug/Kg
76-01-7	Pentachloroethane	0.978U	5.99	0.978	ug/Kg
107-12-0	Propionitrile	3.04U	5.99	3.04	ug/Kg
100-42-5	Styrene	0.493U	5.99	0.493	ug/Kg
127-18-4	Tetrachloroethene	0.244U	5.99	0.244	ug/Kg
108-88-3	**Toluene**	**1.04J**	**5.99**	**0.316**	**ug/Kg**
79-01-6	Trichloroethene	0.208U	5.99	0.208	ug/Kg
75-69-4	Trichlorofluoromethane	0.244U	5.99	0.244	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.239U	5.99	0.239	ug/Kg
108-05-4	Vinyl acetate	0.265U	5.99	0.265	ug/Kg
75-01-4	Vinyl chloride	0.299U	5.99	0.299	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.154U	5.99	0.154	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.390U	5.99	0.390	ug/Kg
136777-61-2	m,p-Xylene	0.425U	5.99	0.425	ug/Kg
104-51-8	n-Butylbenzene	0.170U	5.99	0.170	ug/Kg
110-54-3	**n-Hexane**	**1.18J**	**5.99**	**0.385**	**ug/Kg**
103-65-1	n-Propylbenzene	0.132U	5.99	0.132	ug/Kg
95-47-6	**o-Xylene**	**0.964J**	**5.99**	**0.172**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.129U	5.99	0.129	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.286U	5.99	0.286	ug/Kg
98-06-6	tert-Butylbenzene	0.165U	5.99	0.165	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.382U	5.99	0.382	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.569U	5.99	0.569	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.620U	5.99	0.620	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	44.1	43.8	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	44.1	44.5	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	44.1	44.6	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	44.1	46.6	ug/Kg	106	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:41	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:01	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.3U	448	15.3	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.1U	448	15.1	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.0U	448	17.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.1U	448	14.1	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.3U	448	30.3	ug/Kg
88-06-2	2,4,6-Trichlorophenol	107U	448	107	ug/Kg
120-83-2	2,4-Dichlorophenol	48.1U	448	48.1	ug/Kg
105-67-9	2,4-Dimethylphenol	316U	448	316	ug/Kg
51-28-5	2,4-Dinitrophenol	206U	448	206	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.1U	448	27.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.1U	448	36.1	ug/Kg
91-58-7	2-Chloronaphthalene	14.4U	448	14.4	ug/Kg
95-57-8	2-Chlorophenol	15.7U	448	15.7	ug/Kg
91-57-6	2-Methylnaphthalene	12.2U	448	12.2	ug/Kg
88-74-4	2-Nitroaniline	32.6U	2240	32.6	ug/Kg
88-75-5	2-Nitrophenol	33.3U	448	33.3	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	415U	896	415	ug/Kg
99-09-2	3-Nitroaniline	29.9U	2240	29.9	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	204U	2240	204	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.1U	448	25.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	42.8U	448	42.8	ug/Kg
106-47-8	4-Chloroaniline	30.1U	448	30.1	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.4U	448	25.4	ug/Kg
100-01-6	4-Nitroaniline	221U	2240	221	ug/Kg
100-02-7	4-Nitrophenol	126U	2240	126	ug/Kg
83-32-9	Acenaphthene	17.8U	448	17.8	ug/Kg
208-96-8	Acenaphthylene	17.8U	448	17.8	ug/Kg
120-12-7	Anthracene	15.5U	448	15.5	ug/Kg
92-87-5	Benzidine	2240U	2240	2240	ug/Kg
56-55-3	Benzo(a)anthracene	35.0U	448	35.0	ug/Kg
50-32-8	Benzo(a)pyrene	16.7U	448	16.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.3U	448	41.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.3U	448	14.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.2U	448	18.2	ug/Kg
65-85-0	Benzoic acid	92.3U	2240	92.3	ug/Kg
100-51-6	Benzyl alcohol	61.2U	448	61.2	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.0U	448	35.0	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	33.0U	448	33.0	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.0U	448	28.0	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.6U	448	26.6	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:01	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.05U	448	8.05	ug/Kg
218-01-9	Chrysene	19.7U	448	19.7	ug/Kg
84-74-2	Di-n-butyl phthalate	17.8U	448	17.8	ug/Kg
117-84-0	Di-n-octyl phthalate	6.03U	448	6.03	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.6U	448	15.6	ug/Kg
132-64-9	Dibenzofuran	14.5U	448	14.5	ug/Kg
84-66-2	Diethyl phthalate	27.6U	448	27.6	ug/Kg
131-11-3	Dimethyl phthalate	19.1U	448	19.1	ug/Kg
206-44-0	Fluoranthene	8.85U	448	8.85	ug/Kg
86-73-7	Fluorene	17.5U	448	17.5	ug/Kg
118-74-1	Hexachlorobenzene	25.9U	448	25.9	ug/Kg
87-68-3	Hexachlorobutadiene	27.1U	448	27.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	163U	448	163	ug/Kg
67-72-1	Hexachloroethane	21.6U	448	21.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	41.9U	448	41.9	ug/Kg
78-59-1	Isophorone	15.7U	448	15.7	ug/Kg
91-20-3	Naphthalene	17.9U	448	17.9	ug/Kg
98-95-3	Nitrobenzene	25.0U	448	25.0	ug/Kg
87-86-5	Pentachlorophenol	171U	2240	171	ug/Kg
85-01-8	Phenanthrene	14.4U	448	14.4	ug/Kg
108-95-2	Phenol	26.9U	448	26.9	ug/Kg
129-00-0	Pyrene	20.8U	448	20.8	ug/Kg
1319-77-3MP	m,p-Cresol	63.3U	448	63.3	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.5U	448	20.5	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.3U	448	14.3	ug/Kg
95-48-7	o-Cresol	15.9U	448	15.9	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1270	ug/Kg	76	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1340	ug/Kg	80	46 - 122
1718-51-0	Terphenyl-d14	1670	1510	ug/Kg	91	45 - 135
4165-62-2	Phenol-d5	3330	2780	ug/Kg	83	44 - 124
367-12-4	2-Fluorophenol	3330	2740	ug/Kg	82	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2980	ug/Kg	89	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460789	3550B	1	07/18/2011 16:40	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1750U	5430	1750	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1510	ug/Kg	91	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 01:37	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	807U	6200	807	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1370	1380	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/16/2011 10:00	460792	3550B	1	07/18/2011 16:40	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**3290J**	**18100**	**2590**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1520	ug/Kg	91	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:00	460811	SW-846 7471B	1	07/14/2011 13:39	KAW	460884

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.014B**	**0.016**	**0.0046**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 16:05	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**3490**	**21.7**	**1.71**	**mg/kg**
7440-36-0	Antimony	0.32U	6.52	0.32	mg/kg
7440-38-2	**Arsenic**	**0.82B**	**4.34**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**33.6**	**1.09**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.13B**	**0.54**	**0.0075**	**mg/kg**
7440-43-9	**Cadmium**	**0.20B**	**0.54**	**0.026**	**mg/kg**
7440-70-2	**Calcium**	**135000**	**81.4**	**2.50**	**mg/kg**
7440-47-3	**Chromium**	**3.23**	**1.09**	**0.031**	**mg/kg**
7440-48-4	**Cobalt**	**1.11**	**1.09**	**0.059**	**mg/kg**
7440-50-8	**Copper**	**4.09**	**1.09**	**0.089**	**mg/kg**
7439-89-6	**Iron**	**3240**	**10.9**	**2.46**	**mg/kg**
7439-92-1	**Lead**	**2.53**	**1.63**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**12400**	**10.9**	**3.64**	**mg/kg**
7439-96-5	**Manganese**	**83.6**	**1.63**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**2.42B**	**4.34**	**0.085**	**mg/kg**
7440-09-7	**Potassium**	**1050**	**54.3**	**4.94**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131609	**AOCU-HA57-1**	Solid	07/12/2011 10:55	07/13/2011 08:50

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/18/2011 16:05	CLB	461170

CAS#	Parameter	Result	RDL	MDL	Units
7782-49-2	Selenium	0.52U	4.34	0.52	mg/kg
7440-22-4	Silver	0.095U	1.09	0.095	mg/kg
7440-28-0	Thallium	0.27U	2.17	0.27	mg/kg
7440-62-2	**Vanadium**	**8.31**	**2.17**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**13.3**	**2.17**	**0.90**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/13/2011 17:30	460809	SW-846 3050B	2	07/19/2011 18:35	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-23-5	**Sodium**	**10900**	**109**	**9.53**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:00	461028	EPA 353.2	2	07/15/2011 17:17	AEL	461029

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**20.2**	**1.36**	**0.071**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 10:55	DJH	460861

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**26.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/09/2011 10:26	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 10:46	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	**Bromodichloromethane**	**3.69J**	**5**	**0.071**	**ug/L**
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 10:46	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	**Chloroform**	**6.75**	**5**	**0.062**	**ug/L**
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	**Dibromochloromethane**	**0.893J**	**5**	**0.133**	**ug/L**
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.3	ug/L	101	84 - 120
1868-53-7	Dibromofluoromethane	50	52.3	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	47.7	ug/L	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	49.6	ug/L	99	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 10:46	SLR	461581

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 08:50	460818	3510C	1	07/19/2011 17:35	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.236U	10.1	0.236	ug/L
95-50-1	1,2-Dichlorobenzene	0.262U	10.1	0.262	ug/L
541-73-1	1,3-Dichlorobenzene	0.277U	10.1	0.277	ug/L
106-46-7	1,4-Dichlorobenzene	0.258U	10.1	0.258	ug/L
95-95-4	2,4,5-Trichlorophenol	0.320U	10.1	0.320	ug/L
88-06-2	2,4,6-Trichlorophenol	0.278U	10.1	0.278	ug/L
120-83-2	2,4-Dichlorophenol	0.219U	10.1	0.219	ug/L
105-67-9	2,4-Dimethylphenol	0.701U	10.1	0.701	ug/L
51-28-5	2,4-Dinitrophenol	2.63U	10.1	2.63	ug/L
121-14-2	2,4-Dinitrotoluene	0.266U	10.1	0.266	ug/L
606-20-2	2,6-Dinitrotoluene	0.356U	10.1	0.356	ug/L
91-58-7	2-Chloronaphthalene	0.223U	10.1	0.223	ug/L
95-57-8	2-Chlorophenol	0.279U	10.1	0.279	ug/L
91-57-6	2-Methylnaphthalene	0.258U	10.1	0.258	ug/L
88-74-4	2-Nitroaniline	0.200U	10.1	0.200	ug/L
88-75-5	2-Nitrophenol	0.361U	10.1	0.361	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.300U	10.1	0.300	ug/L
99-09-2	3-Nitroaniline	0.228U	10.1	0.228	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.00U	10.1	2.00	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.340U	10.1	0.340	ug/L
59-50-7	4-Chloro-3-methylphenol	0.236U	10.1	0.236	ug/L
106-47-8	4-Chloroaniline	0.468U	10.1	0.468	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.271U	10.1	0.271	ug/L
100-01-6	4-Nitroaniline	0.223U	10.1	0.223	ug/L
100-02-7	4-Nitrophenol	1.85U	10.1	1.85	ug/L
83-32-9	Acenaphthene	0.271U	10.1	0.271	ug/L
208-96-8	Acenaphthylene	0.306U	10.1	0.306	ug/L
120-12-7	Anthracene	0.319U	10.1	0.319	ug/L
92-87-5	Benzidine	3.96U	50.5	3.96	ug/L
56-55-3	Benzo(a)anthracene	0.319U	10.1	0.319	ug/L
50-32-8	Benzo(a)pyrene	0.126U	10.1	0.126	ug/L
205-99-2	Benzo(b)fluoranthene	0.219U	10.1	0.219	ug/L
191-24-2	Benzo(g,h,i)perylene	0.217U	10.1	0.217	ug/L
207-08-9	Benzo(k)fluoranthene	0.238U	10.1	0.238	ug/L
65-85-0	Benzoic acid	0.919U	10.1	0.919	ug/L
100-51-6	Benzyl alcohol	0.359U	10.1	0.359	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.293U	10.1	0.293	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.291U	10.1	0.291	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.260U	10.1	0.260	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.193U	10.1	0.193	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 08:50	460818	3510C	1	07/19/2011 17:35	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	0.167U	10.1	0.167	ug/L
218-01-9	Chrysene	0.437U	10.1	0.437	ug/L
84-74-2	Di-n-butyl phthalate	0.191U	10.1	0.191	ug/L
117-84-0	Di-n-octyl phthalate	0.169U	10.1	0.169	ug/L
53-70-3	Dibenz(a,h)anthracene	0.219U	10.1	0.219	ug/L
132-64-9	Dibenzofuran	0.229U	10.1	0.229	ug/L
84-66-2	Diethyl phthalate	0.306U	10.1	0.306	ug/L
131-11-3	Dimethyl phthalate	0.258U	10.1	0.258	ug/L
206-44-0	Fluoranthene	0.270U	10.1	0.270	ug/L
86-73-7	Fluorene	0.291U	10.1	0.291	ug/L
118-74-1	Hexachlorobenzene	0.252U	10.1	0.252	ug/L
87-68-3	Hexachlorobutadiene	0.194U	10.1	0.194	ug/L
77-47-4	Hexachlorocyclopentadiene	0.176U	10.1	0.176	ug/L
67-72-1	Hexachloroethane	0.302U	10.1	0.302	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.159U	10.1	0.159	ug/L
78-59-1	Isophorone	0.384U	10.1	0.384	ug/L
91-20-3	Naphthalene	0.296U	10.1	0.296	ug/L
98-95-3	Nitrobenzene	0.332U	10.1	0.332	ug/L
87-86-5	Pentachlorophenol	0.170U	10.1	0.170	ug/L
85-01-8	Phenanthrene	0.307U	10.1	0.307	ug/L
108-95-2	Phenol	0.152U	10.1	0.152	ug/L
129-00-0	Pyrene	0.491U	10.1	0.491	ug/L
1319-77-3MP	m,p-Cresol	0.356U	10.1	0.356	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.307U	10.1	0.307	ug/L
86-30-6	n-Nitrosodiphenylamine	0.368U	10.1	0.368	ug/L
95-48-7	o-Cresol	0.332U	10.1	0.332	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50.5	37.3	ug/L	74	52 - 120
321-60-8	2-Fluorobiphenyl	50.5	37.9	ug/L	75	16 - 128
1718-51-0	Terphenyl-d14	50.5	37.5	ug/L	74	43 - 138
4165-62-2	Phenol-d5	101	34.8	ug/L	34	10 - 120
367-12-4	2-Fluorophenol	101	51.9	ug/L	51	10 - 120
118-79-6	2,4,6-Tribromophenol	101	68.5	ug/L	68	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 11:50	460679	3510C	1	07/15/2011 14:35	DLB	460990

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	46.0U	130	46.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	52.1	37.4	ug/L	72	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 18:35	BMR	461421

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	30.5	ug/L	102	49 - 136

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 11:50	460817	3510C	1	07/15/2011 14:35	DLB	460992

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	47.6U	130	47.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	52.1	37.7	ug/L	72	57 - 115

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460813	SW-846 7470A Dissolved	1	07/17/2011 16:14	BNB	460971

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00031**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/19/2011 16:07	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.044U	0.20	0.044	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0025U	0.010	0.0025	mg/L
7440-39-3	**Barium**	**0.0042B**	**0.010**	**0.00011**	**mg/L**
7440-41-7	Beryllium	0.00011U	0.0050	0.00011	mg/L
7440-43-9	**Cadmium**	**0.00016B**	**0.0050**	**0.00011**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00055B**	**0.010**	**0.00040**	**mg/L**
7440-50-8	**Copper**	**0.0016B**	**0.010**	**0.0014**	**mg/L**
7439-89-6	Iron	0.038U	0.10	0.038	mg/L
7439-92-1	Lead	0.0014U	0.015	0.0014	mg/L
7439-95-4	**Magnesium**	**0.068B**	**0.10**	**0.014**	**mg/L**
7439-96-5	**Manganese**	**0.0013B**	**0.015**	**0.0012**	**mg/L**
7440-02-0	**Nickel**	**0.0012B**	**0.040**	**0.00096**	**mg/L**
7440-09-7	**Potassium**	**0.38B**	**0.50**	**0.053**	**mg/L**
7782-49-2	Selenium	0.0043U	0.040	0.0043	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131610	**AOCU-EB01**	Water	07/11/2011 15:45	07/13/2011 08:50

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/19/2011 16:07	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.00060U	0.010	0.00060	mg/L
7440-23-5	**Sodium**	**17.6**	**1.00**	**0.051**	**mg/L**
7440-28-0	**Thallium**	**0.0048B**	**0.020**	**0.0018**	**mg/L**
7440-62-2	**Vanadium**	**0.0017B**	**0.020**	**0.00082**	**mg/L**
7440-66-6	Zinc	0.0027U	0.020	0.0027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/20/2011 11:40	CLB	461437

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**0.27**	**0.10**	**0.026**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/13/2011 14:24	AEL	460786

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.086**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131611	**TRIP BLANK**	Water	07/11/2011 13:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:09	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107131611	**TRIP BLANK**	Water	07/11/2011 13:30	07/13/2011 08:50

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:09	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.5	ug/L	99	84 - 120
1868-53-7	Dibromofluoromethane	50	54.8	ug/L	110	87 - 116
2037-26-5	Toluene d8	50	45	ug/L	90	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	53.2	ug/L	106	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	52.5	105	59 - 134
107-02-8	Acrolein	2.49U	2.49	250	367	147	33 - 157
107-13-1	Acrylonitrile	1.62U	1.62	250	266	106	62 - 124
74-97-5	Bromochloromethane	0.238U	0.238	50.0	62.2	**124***	78 - 112
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	58.0	116	76 - 116
75-25-2	Bromoform	0.278U	0.278	50.0	52.3	105	68 - 128
74-83-9	Bromomethane	0.276U	0.276	50.0	39.3	79	55 - 151
75-15-0	Carbon disulfide	0.190U	0.190	50.0	61.1	122	67 - 147
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	60.5	121	74 - 139
75-00-3	Chloroethane	0.279U	0.279	50.0	56.8	114	54 - 166
136777-61-2	m,p-Xylene	0.099U	0.099	100	98.2	98	83 - 121
67-66-3	Chloroform	0.062U	0.062	50.0	56.1	112	85 - 123
74-87-3	Chloromethane	0.076U	0.076	50.0	52.8	106	55 - 173
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	52.5	105	74 - 116
74-95-3	Dibromomethane	0.197U	0.197	50.0	58.8	**118***	81 - 116
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	56.2	112	34 - 158
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	59.0	118	82 - 127
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.4	111	76 - 122
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	59.7	**119***	81 - 114
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	57.3	115	82 - 126
75-09-2	Methylene chloride	0.102U	0.102	50.0	53.3	107	69 - 125
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	58.4	117	81 - 120
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	59.3	119	83 - 119
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.6	101	87 - 123
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.6	101	87 - 118
97-63-2	Ethyl methacrylate	0.340U	0.340				
591-78-6	2-Hexanone	0.302U	0.302	50.0	53.4	107	58 - 125
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.0	104	87 - 131
78-93-3	2-Butanone	0.235U	0.235	50.0	61.8	124	61 - 127
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	57.4	115	62 - 125
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.6	103	86 - 125
100-42-5	Styrene	0.058U	0.058	50.0	51.0	102	78 - 118

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	54.4	109	80 - 131
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.0	102	81 - 119
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	51.3	103	71 - 120
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	52.8	106	68 - 123
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	59.0	118	79 - 133
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	50.1	100	80 - 114
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	57.3	115	66 - 156
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	50.1	100	77 - 115
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.4	99	82 - 120
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	50.6	101	83 - 123
75-01-4	Vinyl chloride	0.104U	0.104	50.0	58.4	117	57 - 153
95-47-6	o-Xylene	0.077U	0.077	50.0	49.2	98	83 - 121
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	50.4	101	61 - 118
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 115
80-62-6	Methyl methacrylate	0.606U	0.606				
107-12-0	Propionitrile	3.06U	3.06				
108-05-4	Vinyl acetate	0.197U	0.197	50.0	49.3	99	38 - 159
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	57.1	114	75 - 116
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	52.3	105	83 - 125
110-54-3	n-Hexane	0.126U	0.126	50.0	69.9	**140***	71 - 134
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	49.9	100	51 - 137
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	56.9	114	77 - 138
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	61.0	122	74 - 139
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	61.5	123	87 - 127
110-75-8	2-Chloroethylvinyl ether	1.00U	1.00	50.0	59.2	118	63 - 125
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	49.5	99	81 - 113
108-86-1	Bromobenzene	0.095U	0.095	50.0	50.5	101	83 - 115
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	50.0	100	81 - 121
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	49.0	98	84 - 120
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	58.3	117	83 - 126
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	51.6	103	86 - 127
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	86 - 115
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	51.8	104	87 - 113

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062		LCS461062		
Prep Batch N/A		**GCAL ID**	969136		969137		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/16/2011 09:00		07/16/2011 06:52		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	50.2	100	84 - 124
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	53.2	106	85 - 115
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	54.2	108	71 - 133
91-20-3	Naphthalene	0.175U	0.175	50.0	49.4	99	59 - 125
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	52.5	105	64 - 126
75-05-8	Acetonitrile	5.04U	5.04				
107-05-1	Allyl chloride	0.343U	0.343				
544-10-5	1-Chlorohexane	0.139U	0.139	50.0	53.8	108	87 - 128
76-01-7	Pentachloroethane	1.87U	1.87				
126-98-7	Methacrylonitrile	0.743U	0.743				
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	59.3	119	75 - 133
71-43-2	Benzene	0.049U	0.049	50.0	59.0	118	83 - 124
79-01-6	Trichloroethene	0.094U	0.094	50.0	61.0	122	85 - 124
108-88-3	Toluene	0.078U	0.078	50.0	50.9	102	86 - 116
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.9	100	87 - 115
Surrogate							
460-00-4	4-Bromofluorobenzene	51.5	103	50	52	104	84 - 120
1868-53-7	Dibromofluoromethane	52.7	105	50	51.9	104	87 - 116
2037-26-5	Toluene d8	46.1	92	50	47.6	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	49.1	98	50	48.6	97	76 - 127

Analytical Batch 461062		**Client ID**	MB461062		LCS461062			LCSD461062			
Prep Batch N/A		**GCAL ID**	969136		969248			969249			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	07/16/2011 09:00		07/16/2011 07:57			07/16/2011 18:06			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322								
107-02-8	Acrolein	2.49U	2.49								
107-13-1	Acrylonitrile	1.62U	1.62								
74-97-5	Bromochloromethane	0.238U	0.238								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-27-4	Bromodichloromethane		0.071U	0.071								
75-25-2	Bromoform		0.278U	0.278								
74-83-9	Bromomethane		0.276U	0.276								
75-15-0	Carbon disulfide		0.190U	0.190								
56-23-5	Carbon tetrachloride		0.056U	0.056								
75-00-3	Chloroethane		0.279U	0.279								
136777-61-2	m,p-Xylene		0.099U	0.099								
67-66-3	Chloroform		0.062U	0.062								
74-87-3	Chloromethane		0.076U	0.076								
124-48-1	Dibromochloromethane		0.133U	0.133								
74-95-3	Dibromomethane		0.197U	0.197								
75-71-8	Dichlorodifluoromethane		0.088U	0.088								
75-34-3	1,1-Dichloroethane		0.064U	0.064								
107-06-2	1,2-Dichloroethane		0.121U	0.121								
156-59-2	cis-1,2-Dichloroethene		0.104U	0.104								
156-60-5	trans-1,2-Dichloroethene		0.096U	0.096								
75-09-2	Methylene chloride		0.102U	0.102								
78-87-5	1,2-Dichloropropane		0.114U	0.114								
10061-01-5	cis-1,3-Dichloropropene		0.105U	0.105								
10061-02-6	trans-1,3-Dichloropropene		0.068U	0.068								
100-41-4	Ethylbenzene		0.180U	0.180								
97-63-2	Ethyl methacrylate		0.340U	0.340	50.0	49.5	99	68 - 110	59.8	**120***	19	30
591-78-6	2-Hexanone		0.302U	0.302								
98-82-8	Isopropylbenzene (Cumene)		0.058U	0.058								
78-93-3	2-Butanone		0.235U	0.235								
74-88-4	Methyl iodide		0.097U	0.097								
108-10-1	4-Methyl-2-pentanone		0.142U	0.142								
103-65-1	n-Propylbenzene		0.069U	0.069								
100-42-5	Styrene		0.058U	0.058								
127-18-4	Tetrachloroethene		0.141U	0.141								
630-20-6	1,1,1,2-Tetrachloroethane		0.150U	0.150								
79-34-5	1,1,2,2-Tetrachloroethane		0.112U	0.112								
120-82-1	1,2,4-Trichlorobenzene		0.138U	0.138								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
71-55-6	1,1,1-Trichloroethane		0.078U	0.078								
79-00-5	1,1,2-Trichloroethane		0.179U	0.179								
75-69-4	Trichlorofluoromethane		0.094U	0.094								
96-18-4	1,2,3-Trichloropropane		0.063U	0.063								
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080								
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053								
75-01-4	Vinyl chloride		0.104U	0.104								
95-47-6	o-Xylene		0.077U	0.077								
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082								
106-93-4	1,2-Dibromoethane		0.169U	0.169								
80-62-6	Methyl methacrylate		0.606U	0.606	50.0	56.5	113	63 - 115	47.9	96	16	30
107-12-0	Propionitrile		3.06U	3.06	250	281	112	69 - 119	268	107	5	30
108-05-4	Vinyl acetate		0.197U	0.197								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084								
99-87-6	4-Isopropyltoluene		0.175U	0.175								
110-54-3	n-Hexane		0.126U	0.126								
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429								
594-20-7	2,2-Dichloropropane		0.112U	0.112								
76-13-1	Trichlorotrifluoroethane		0.141U	0.141								
563-58-6	1,1-Dichloropropene		0.071U	0.071								
110-75-8	2-Chloroethylvinyl ether		1.00U	1.00								
142-28-9	1,3-Dichloropropane		0.113U	0.113								
108-86-1	Bromobenzene		0.095U	0.095								
95-49-8	2-Chlorotoluene		0.090U	0.090								
106-43-4	4-Chlorotoluene		0.046U	0.046								
98-06-6	tert-Butylbenzene		0.058U	0.058								
135-98-8	sec-Butylbenzene		0.088U	0.088								
541-73-1	1,3-Dichlorobenzene		0.080U	0.080								
106-46-7	1,4-Dichlorobenzene		0.058U	0.058								
104-51-8	n-Butylbenzene		0.068U	0.068								
95-50-1	1,2-Dichlorobenzene		0.086U	0.086								
87-68-3	Hexachlorobutadiene		0.347U	0.347								
91-20-3	Naphthalene		0.175U	0.175								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107								
75-05-8	Acetonitrile		5.04U	5.04	250	291	116	57 - 123	174	70	**50***	30
107-05-1	Allyl chloride		0.343U	0.343	50.0	47.5	95	48 - 136	39.0	78	20	30
544-10-5	1-Chlorohexane		0.139U	0.139								
76-01-7	Pentachloroethane		1.87U	1.87	50.0	48.1	96	82 - 111	51.5	103	7	30
126-98-7	Methacrylonitrile		0.743U	0.743	50.0	51.0	102	62 - 133	49.1	98	4	30
75-35-4	1,1-Dichloroethene		0.183U	0.183								
71-43-2	Benzene		0.049U	0.049								
79-01-6	Trichloroethene		0.094U	0.094								
108-88-3	Toluene		0.078U	0.078								
108-90-7	Chlorobenzene		0.055U	0.055								
Surrogate												
460-00-4	4-Bromofluorobenzene		51.5	103	50	51.7	103	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane		52.7	105	50	50.6	101	87 - 116	46.7	93		
2037-26-5	Toluene d8		46.1	92	50	46.5	93	86 - 112	55	110		
17060-07-0	1,2-Dichloroethane-d4		49.1	98	50	51.1	102	76 - 127	51.3	103		

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970257			970258		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 17:59			07/19/2011 18:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.08U	1.08	50.0	45.3	91	61 - 144	48.5	97	7	30
107-02-8	Acrolein		2.33U	2.33	250	182	73	27 - 156	187	75	3	30
107-13-1	Acrylonitrile		0.580U	0.580	250	213	85	55 - 144	222	89	4	30
74-97-5	Bromochloromethane		0.241U	0.241	50.0	51.1	102	72 - 122	51.0	102	0.2	30
75-27-4	Bromodichloromethane		0.135U	0.135	50.0	52.2	104	73 - 122	52.7	105	1	30
75-25-2	Bromoform		0.214U	0.214	50.0	56.5	113	70 - 139	59.2	118	5	30
74-83-9	Bromomethane		0.638U	0.638	50.0	46.1	92	60 - 146	48.0	96	4	30
75-15-0	Carbon disulfide		0.361U	0.361	50.0	47.8	96	61 - 142	47.6	95	0.4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363	**Client ID**	MB461363	LCS461363	LCSD461363
Prep Batch N/A	**GCAL ID**	970256	970257	970258
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/19/2011 23:24	07/19/2011 17:59	07/19/2011 18:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
56-23-5	Carbon tetrachloride	0.205U	0.205	50.0	51.5	103	79 - 135	49.9	100	3	30
75-00-3	Chloroethane	0.244U	0.244	50.0	51.0	102	61 - 153	52.0	104	2	30
136777-61-2	m,p-Xylene	0.355U	0.355	100	102	102	82 - 128	102	102	0	30
67-66-3	Chloroform	1.08J	0.225	50.0	51.8	104	79 - 129	50.6	101	2	30
74-87-3	Chloromethane	0.565U	0.565	50.0	53.1	106	58 - 163	54.7	109	3	30
124-48-1	Dibromochloromethane	0.191U	0.191	50.0	54.4	109	78 - 117	57.0	114	5	30
74-95-3	Dibromomethane	0.194U	0.194	50.0	51.5	103	75 - 128	52.7	105	2	30
75-71-8	Dichlorodifluoromethane	0.119U	0.119	50.0	51.8	104	35 - 162	50.8	102	2	30
75-34-3	1,1-Dichloroethane	0.176U	0.176	50.0	48.3	97	77 - 132	47.6	95	1	30
107-06-2	1,2-Dichloroethane	0.182U	0.182	50.0	50.4	101	78 - 129	51.9	104	3	30
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129	50.0	48.4	97	74 - 123	48.7	97	0.6	30
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319	50.0	50.3	101	77 - 129	49.9	100	0.8	30
75-09-2	Methylene chloride	0.481U	0.481	50.0	44.8	90	62 - 140	45.3	91	1	30
78-87-5	1,2-Dichloropropane	0.123U	0.123	50.0	51.6	103	74 - 127	52.3	105	1	30
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326	50.0	52.2	104	79 - 130	52.9	106	1	30
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475	50.0	53.7	107	87 - 131	55.3	111	3	30
100-41-4	Ethylbenzene	0.219U	0.219	50.0	51.3	103	82 - 124	51.8	104	1	30
97-63-2	Ethyl methacrylate	0.431U	0.431								
591-78-6	2-Hexanone	0.707U	0.707	50.0	50.8	102	67 - 130	52.7	105	4	30
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093	50.0	50.5	101	82 - 133	50.2	100	0.6	30
78-93-3	2-Butanone	0.635U	0.635	50.0	55.3	111	66 - 134	57.9	116	5	30
74-88-4	Methyl iodide	1.23U	1.23	50.0	53.2	106	66 - 128	52.1	104	2	30
108-10-1	4-Methyl-2-pentanone	0.225U	0.225	50.0	52.5	105	69 - 125	53.7	107	2	30
103-65-1	n-Propylbenzene	0.110U	0.110	50.0	48.3	97	78 - 129	48.1	96	0.4	30
100-42-5	Styrene	0.412U	0.412	50.0	52.7	105	79 - 123	53.9	108	2	30
127-18-4	Tetrachloroethene	0.204U	0.204	50.0	51.6	103	79 - 132	51.2	102	0.8	30
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215	50.0	54.2	108	81 - 121	55.2	110	2	30
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197	50.0	50.7	101	70 - 128	51.8	104	2	30
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145	50.0	48.4	97	82 - 137	50.7	101	5	30
71-55-6	1,1,1-Trichloroethane	0.192U	0.192	50.0	50.6	101	80 - 133	49.3	99	3	30
79-00-5	1,1,2-Trichloroethane	0.171U	0.171	50.0	53.3	107	76 - 118	56.5	113	6	30
75-69-4	Trichlorofluoromethane	0.204U	0.204	50.0	51.3	103	67 - 149	50.1	100	2	30
96-18-4	1,2,3-Trichloropropane	0.164U	0.164	50.0	53.2	106	74 - 125	54.4	109	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363	**Client ID**	MB461363	LCS461363	LCSD461363
Prep Batch N/A	**GCAL ID**	970256	970257	970258
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/19/2011 23:24	07/19/2011 17:59	07/19/2011 18:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119	50.0	50.2	100	77 - 129	50.3	101	0.2	30
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114	50.0	48.3	97	79 - 129	47.6	95	1	30
75-01-4	Vinyl chloride	0.250U	0.250	50.0	51.7	103	60 - 145	50.8	102	2	30
95-47-6	o-Xylene	0.144U	0.144	50.0	50.6	101	82 - 126	51.0	102	0.8	30
96-12-8	1,2-Dibromo-3-chloropropane	0.697U	0.697	50.0	52.2	104	67 - 129	55.5	111	6	30
106-93-4	1,2-Dibromoethane	0.548U	0.548	50.0	53.5	107	77 - 126	55.6	111	4	30
80-62-6	Methyl methacrylate	0.799U	0.799								
107-12-0	Propionitrile	2.54U	2.54								
108-05-4	Vinyl acetate	0.221U	0.221	50.0	33.9	68	25 - 164	32.7	65	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.239U	0.239	50.0	47.3	95	70 - 131	49.2	98	4	30
99-87-6	4-Isopropyltoluene	0.085U	0.085	50.0	48.2	96	82 - 132	48.3	97	0.2	30
110-54-3	n-Hexane	0.322U	0.322	50.0	45.5	91	65 - 147	44.4	89	2	30
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518	50.0	53.8	108	74 - 138	54.7	109	2	30
594-20-7	2,2-Dichloropropane	0.304U	0.304	50.0	47.8	96	80 - 137	47.4	95	0.8	30
76-13-1	Trichlorotrifluoroethane	0.200U	0.200	50.0	49.0	98	62 - 147	48.5	97	1	30
563-58-6	1,1-Dichloropropene	0.198U	0.198	50.0	49.9	100	81 - 133	49.4	99	1	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20	50.0	52.1	104	52 - 142	54.4	109	4	30
142-28-9	1,3-Dichloropropane	0.134U	0.134	50.0	53.0	106	78 - 118	55.2	110	4	30
108-86-1	Bromobenzene	0.147U	0.147	50.0	49.2	98	78 - 123	49.9	100	1	30
95-49-8	2-Chlorotoluene	0.173U	0.173	50.0	49.3	99	77 - 123	48.9	98	0.8	30
106-43-4	4-Chlorotoluene	0.110U	0.110	50.0	49.0	98	78 - 129	49.1	98	0.2	30
98-06-6	tert-Butylbenzene	0.138U	0.138	50.0	49.0	98	79 - 130	48.7	97	0.6	30
135-98-8	sec-Butylbenzene	0.108U	0.108	50.0	49.9	100	82 - 132	48.6	97	3	30
541-73-1	1,3-Dichlorobenzene	0.141U	0.141	50.0	50.0	100	82 - 126	50.6	101	1	30
106-46-7	1,4-Dichlorobenzene	0.142U	0.142	50.0	48.8	98	84 - 124	49.3	99	1	30
104-51-8	n-Butylbenzene	0.142U	0.142	50.0	47.8	96	80 - 138	47.7	95	0.2	30
95-50-1	1,2-Dichlorobenzene	0.254U	0.254	50.0	49.6	99	83 - 123	50.8	102	2	30
87-68-3	Hexachlorobutadiene	0.152U	0.152	50.0	50.3	101	77 - 150	49.5	99	2	30
91-20-3	Naphthalene	0.175U	0.175	50.0	48.9	98	59 - 143	52.8	106	8	30
87-61-6	1,2,3-Trichlorobenzene	0.113U	0.113	50.0	50.1	100	78 - 136	51.5	103	3	30
75-05-8	Acetonitrile	1.67U	1.67								
107-05-1	Allyl chloride	0.551U	0.551								
544-10-5	1-Chlorohexane	0.147U	0.147	50.0	52.0	104	85 - 137	48.7	97	7	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970257			970258		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 17:59			07/19/2011 18:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
76-01-7	Pentachloroethane		0.817U	0.817								
126-98-7	Methacrylonitrile		0.441U	0.441								
75-35-4	1,1-Dichloroethene		0.307U	0.307	50.0	47.9	96	66 - 132	49.2	98	3	30
71-43-2	Benzene		0.106U	0.106	50.0	49.7	99	78 - 130	50.0	100	0.6	30
79-01-6	Trichloroethene		0.174U	0.174	50.0	52.9	106	78 - 132	53.0	106	0.2	30
108-88-3	Toluene		0.264U	0.264	50.0	51.4	103	80 - 123	51.2	102	0.4	30
108-90-7	Chlorobenzene		0.179U	0.179	50.0	50.8	102	83 - 122	52.1	104	3	30
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	51	102	59 - 148	51.4	103		
1868-53-7	Dibromofluoromethane		51.1	102	50	50.3	101	80 - 121	50.9	102		
2037-26-5	Toluene d8		50.5	101	50	50.3	101	71 - 130	51.2	102		
17060-07-0	1,2-Dichloroethane-d4		54.7	109	50	50.9	102	77 - 123	50.8	102		

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970298			970299		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.08U	1.08								
107-02-8	Acrolein		2.33U	2.33								
107-13-1	Acrylonitrile		0.580U	0.580								
74-97-5	Bromochloromethane		0.241U	0.241								
75-27-4	Bromodichloromethane		0.135U	0.135								
75-25-2	Bromoform		0.214U	0.214								
74-83-9	Bromomethane		0.638U	0.638								
75-15-0	Carbon disulfide		0.361U	0.361								
56-23-5	Carbon tetrachloride		0.205U	0.205								
75-00-3	Chloroethane		0.244U	0.244								
136777-61-2	m,p-Xylene		0.355U	0.355								
67-66-3	Chloroform		1.08J	0.225								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461363	**Client ID**	MB461363		LCS461363				LCSD461363		
Prep Batch	N/A	**GCAL ID**	970256		970298				970299		
		Sample Type	Method Blank		LCS				LCSD		
		Analytical Date	07/19/2011 23:24		07/19/2011 19:24				07/20/2011 01:15		
		Matrix	Solid		Solid				Solid		
SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
74-87-3	Chloromethane	0.565U	0.565								
124-48-1	Dibromochloromethane	0.191U	0.191								
74-95-3	Dibromomethane	0.194U	0.194								
75-71-8	Dichlorodifluoromethane	0.119U	0.119								
75-34-3	1,1-Dichloroethane	0.176U	0.176								
107-06-2	1,2-Dichloroethane	0.182U	0.182								
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129								
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319								
75-09-2	Methylene chloride	0.481U	0.481								
78-87-5	1,2-Dichloropropane	0.123U	0.123								
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326								
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475								
100-41-4	Ethylbenzene	0.219U	0.219								
97-63-2	Ethyl methacrylate	0.431U	0.431	50.0	48.3	97	78 - 118	47.7	95	1	30
591-78-6	2-Hexanone	0.707U	0.707								
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093								
78-93-3	2-Butanone	0.635U	0.635								
74-88-4	Methyl iodide	1.23U	1.23								
108-10-1	4-Methyl-2-pentanone	0.225U	0.225								
103-65-1	n-Propylbenzene	0.110U	0.110								
100-42-5	Styrene	0.412U	0.412								
127-18-4	Tetrachloroethene	0.204U	0.204								
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215								
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197								
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145								
71-55-6	1,1,1-Trichloroethane	0.192U	0.192								
79-00-5	1,1,2-Trichloroethane	0.171U	0.171								
75-69-4	Trichlorofluoromethane	0.204U	0.204								
96-18-4	1,2,3-Trichloropropane	0.164U	0.164								
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119								
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114								
75-01-4	Vinyl chloride	0.250U	0.250								
95-47-6	o-Xylene	0.144U	0.144								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461363	**Client ID**	MB461363			LCS461363			LCSD461363			
Prep Batch	N/A	**GCAL ID**	970256			970298			970299			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15			
		Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
96-12-8	1,2-Dibromo-3-chloropropane		0.697U	0.697								
106-93-4	1,2-Dibromoethane		0.548U	0.548								
80-62-6	Methyl methacrylate		0.799U	0.799	50.0	46.7	93	73 - 125	47.0	94	0.6	30
107-12-0	Propionitrile		2.54U	2.54	250	238	95	73 - 133	236	94	0.8	30
108-05-4	Vinyl acetate		0.221U	0.221								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.239U	0.239								
99-87-6	4-Isopropyltoluene		0.085U	0.085								
110-54-3	n-Hexane		0.322U	0.322								
110-57-6	trans-1,4-Dichloro-2-butene		0.518U	0.518								
594-20-7	2,2-Dichloropropane		0.304U	0.304								
76-13-1	Trichlorotrifluoroethane		0.200U	0.200								
563-58-6	1,1-Dichloropropene		0.198U	0.198								
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20								
142-28-9	1,3-Dichloropropane		0.134U	0.134								
108-86-1	Bromobenzene		0.147U	0.147								
95-49-8	2-Chlorotoluene		0.173U	0.173								
106-43-4	4-Chlorotoluene		0.110U	0.110								
98-06-6	tert-Butylbenzene		0.138U	0.138								
135-98-8	sec-Butylbenzene		0.108U	0.108								
541-73-1	1,3-Dichlorobenzene		0.141U	0.141								
106-46-7	1,4-Dichlorobenzene		0.142U	0.142								
104-51-8	n-Butylbenzene		0.142U	0.142								
95-50-1	1,2-Dichlorobenzene		0.254U	0.254								
87-68-3	Hexachlorobutadiene		0.152U	0.152								
91-20-3	Naphthalene		0.175U	0.175								
87-61-6	1,2,3-Trichlorobenzene		0.113U	0.113								
75-05-8	Acetonitrile		1.67U	1.67	250	230	92	59 - 139	225	90	2	30
107-05-1	Allyl chloride		0.551U	0.551	50.0	54.1	108	41 - 152	48.8	98	10	30
544-10-5	1-Chlorohexane		0.147U	0.147								
76-01-7	Pentachloroethane		0.817U	0.817	50.0	348	**696***	64 - 156	173	**346***	67	
126-98-7	Methacrylonitrile		0.441U	0.441	50.0	48.0	96	70 - 138	51.3	103	7	30
75-35-4	1,1-Dichloroethene		0.307U	0.307								
71-43-2	Benzene		0.106U	0.106								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461363		**Client ID**	MB461363			LCS461363			LCSD461363		
Prep Batch N/A		**GCAL ID**	970256			970298			970299		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/19/2011 23:24			07/19/2011 19:24			07/20/2011 01:15		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.174U	0.174								
108-88-3	Toluene		0.264U	0.264								
108-90-7	Chlorobenzene		0.179U	0.179								
Surrogate												
460-00-4	4-Bromofluorobenzene		49.3	99	50	49.3	99	59 - 148	49.7	99		
1868-53-7	Dibromofluoromethane		51.1	102	50	48.7	97	80 - 121	49.2	98		
2037-26-5	Toluene d8		50.5	101	50	49.8	100	71 - 130	50.5	101		
17060-07-0	1,2-Dichloroethane-d4		54.7	109	50	52.2	104	77 - 123	50.8	102		

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970501			970502		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:59			07/20/2011 12:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.66J	1.08	50.0	46.0	92	61 - 144	41.6	83	10	30
107-02-8	Acrolein		2.33U	2.33	250	222	89	27 - 156	232	93	4	30
107-13-1	Acrylonitrile		0.580U	0.580	250	251	100	55 - 144	249	100	0.8	30
74-97-5	Bromochloromethane		0.241U	0.241	50.0	51.8	104	72 - 122	52.1	104	0.6	30
75-27-4	Bromodichloromethane		0.135U	0.135	50.0	52.1	104	73 - 122	52.1	104	0	30
75-25-2	Bromoform		0.214U	0.214	50.0	55.9	112	70 - 139	55.9	112	0	30
74-83-9	Bromomethane		0.638U	0.638	50.0	45.9	92	60 - 146	47.7	95	4	30
75-15-0	Carbon disulfide		0.361U	0.361	50.0	47.7	95	61 - 142	46.6	93	2	30
56-23-5	Carbon tetrachloride		0.205U	0.205	50.0	53.4	107	79 - 135	51.4	103	4	30
75-00-3	Chloroethane		0.244U	0.244	50.0	49.1	98	61 - 153	47.8	96	3	30
136777-61-2	m,p-Xylene		0.355U	0.355	100	102	102	82 - 128	98.1	98	4	30
67-66-3	Chloroform		0.688J	0.225	50.0	52.6	105	79 - 129	51.2	102	3	30
74-87-3	Chloromethane		0.565U	0.565	50.0	54.0	108	58 - 163	54.2	108	0.4	30
124-48-1	Dibromochloromethane		0.191U	0.191	50.0	53.3	107	78 - 117	52.4	105	2	30
74-95-3	Dibromomethane		0.194U	0.194	50.0	52.9	106	75 - 128	52.2	104	1	30
75-71-8	Dichlorodifluoromethane		0.119U	0.119	50.0	49.9	100	35 - 162	48.5	97	3	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425	**Client ID**	MB461425	LCS461425	LCSD461425
Prep Batch N/A	**GCAL ID**	970500	970501	970502
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/20/2011 13:20	07/20/2011 11:59	07/20/2011 12:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-34-3	1,1-Dichloroethane	0.176U	0.176	50.0	51.9	104	77 - 132	50.5	101	3	30
107-06-2	1,2-Dichloroethane	0.182U	0.182	50.0	51.8	104	78 - 129	51.0	102	2	30
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129	50.0	50.5	101	74 - 123	48.7	97	4	30
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319	50.0	49.9	100	77 - 129	49.9	100	0	30
75-09-2	Methylene chloride	0.481U	0.481	50.0	44.4	89	62 - 140	43.8	88	1	30
78-87-5	1,2-Dichloropropane	0.123U	0.123	50.0	52.5	105	74 - 127	51.6	103	2	30
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326	50.0	53.2	106	79 - 130	52.8	106	0.8	30
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475	50.0	53.7	107	87 - 131	53.4	107	0.6	30
100-41-4	Ethylbenzene	0.219U	0.219	50.0	51.0	102	82 - 124	49.4	99	3	30
97-63-2	Ethyl methacrylate	0.431U	0.431								
591-78-6	2-Hexanone	0.707U	0.707	50.0	45.9	92	67 - 130	45.2	90	2	30
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093	50.0	50.3	101	82 - 133	47.9	96	5	30
78-93-3	2-Butanone	4.41J	0.635	50.0	50.2	100	66 - 134	49.7	99	1	30
74-88-4	Methyl iodide	1.23U	1.23	50.0	50.3	101	66 - 128	48.5	97	4	30
108-10-1	4-Methyl-2-pentanone	0.225U	0.225	50.0	51.0	102	69 - 125	49.9	100	2	30
103-65-1	n-Propylbenzene	0.110U	0.110	50.0	48.2	96	78 - 129	46.4	93	4	30
100-42-5	Styrene	0.412U	0.412	50.0	52.0	104	79 - 123	50.8	102	2	30
127-18-4	Tetrachloroethene	0.204U	0.204	50.0	52.7	105	79 - 132	48.5	97	8	30
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215	50.0	52.7	105	81 - 121	52.1	104	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197	50.0	51.9	104	70 - 128	51.8	104	0.2	30
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145	50.0	50.5	101	82 - 137	48.6	97	4	30
71-55-6	1,1,1-Trichloroethane	0.192U	0.192	50.0	51.8	104	80 - 133	50.6	101	2	30
79-00-5	1,1,2-Trichloroethane	0.171U	0.171	50.0	51.1	102	76 - 118	51.4	103	0.6	30
75-69-4	Trichlorofluoromethane	0.204U	0.204	50.0	50.7	101	67 - 149	48.9	98	4	30
96-18-4	1,2,3-Trichloropropane	0.164U	0.164	50.0	51.7	103	74 - 125	51.8	104	0.2	30
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119	50.0	50.2	100	77 - 129	48.3	97	4	30
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114	50.0	48.2	96	79 - 129	46.4	93	4	30
75-01-4	Vinyl chloride	0.250U	0.250	50.0	51.6	103	60 - 145	50.6	101	2	30
95-47-6	o-Xylene	0.868J	0.144	50.0	50.1	100	82 - 126	48.8	98	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.697U	0.697	50.0	53.4	107	67 - 129	53.9	108	0.9	30
106-93-4	1,2-Dibromoethane	0.548U	0.548	50.0	53.0	106	77 - 126	52.3	105	1	30
80-62-6	Methyl methacrylate	0.799U	0.799								
107-12-0	Propionitrile	2.54U	2.54								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425	**Client ID**	MB461425	LCS461425	LCSD461425
Prep Batch N/A	**GCAL ID**	970500	970501	970502
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/20/2011 13:20	07/20/2011 11:59	07/20/2011 12:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-05-4	Vinyl acetate	0.221U	0.221	50.0	60.1	120	25 - 164	61.8	124	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.239U	0.239	50.0	47.9	96	70 - 131	47.7	95	0.4	30
99-87-6	4-Isopropyltoluene	0.085U	0.085	50.0	49.1	98	82 - 132	46.1	92	6	30
110-54-3	n-Hexane	0.508J	0.322	50.0	49.4	99	65 - 147	45.6	91	8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518	50.0	55.2	110	74 - 138	55.3	111	0.2	30
594-20-7	2,2-Dichloropropane	0.304U	0.304	50.0	50.5	101	80 - 137	47.8	96	5	30
76-13-1	Trichlorotrifluoroethane	0.200U	0.200	50.0	50.0	100	62 - 147	46.9	94	6	30
563-58-6	1,1-Dichloropropene	0.198U	0.198	50.0	52.2	104	81 - 133	49.6	99	5	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20	50.0	56.7	113	52 - 142	58.1	116	2	30
142-28-9	1,3-Dichloropropane	0.134U	0.134	50.0	52.6	105	78 - 118	51.5	103	2	30
108-86-1	Bromobenzene	0.147U	0.147	50.0	48.6	97	78 - 123	47.2	94	3	30
95-49-8	2-Chlorotoluene	0.173U	0.173	50.0	48.1	96	77 - 123	46.9	94	3	30
106-43-4	4-Chlorotoluene	0.110U	0.110	50.0	48.1	96	78 - 129	47.3	95	2	30
98-06-6	tert-Butylbenzene	0.138U	0.138	50.0	49.0	98	79 - 130	46.5	93	5	30
135-98-8	sec-Butylbenzene	0.108U	0.108	50.0	50.2	100	82 - 132	47.6	95	5	30
541-73-1	1,3-Dichlorobenzene	0.141U	0.141	50.0	49.9	100	82 - 126	48.7	97	2	30
106-46-7	1,4-Dichlorobenzene	0.142U	0.142	50.0	48.9	98	84 - 124	48.0	96	2	30
104-51-8	n-Butylbenzene	0.142U	0.142	50.0	50.1	100	80 - 138	47.4	95	6	30
95-50-1	1,2-Dichlorobenzene	0.254U	0.254	50.0	48.7	97	83 - 123	47.9	96	2	30
87-68-3	Hexachlorobutadiene	0.152U	0.152	50.0	52.5	105	77 - 150	49.2	98	6	30
91-20-3	Naphthalene	0.175U	0.175	50.0	49.3	99	59 - 143	49.7	99	0.8	30
87-61-6	1,2,3-Trichlorobenzene	0.113U	0.113	50.0	50.3	101	78 - 136	48.8	98	3	30
75-05-8	Acetonitrile	1.67U	1.67								
107-05-1	Allyl chloride	0.551U	0.551								
544-10-5	1-Chlorohexane	0.147U	0.147	50.0	54.1	108	85 - 137	48.8	98	10	30
76-01-7	Pentachloroethane	0.817U	0.817								
126-98-7	Methacrylonitrile	0.441U	0.441								
75-35-4	1,1-Dichloroethene	0.307U	0.307	50.0	47.5	95	66 - 132	46.7	93	2	30
71-43-2	Benzene	0.180J	0.106	50.0	51.7	103	78 - 130	50.6	101	2	30
79-01-6	Trichloroethene	0.174U	0.174	50.0	51.1	102	78 - 132	49.8	100	3	30
108-88-3	Toluene	0.264U	0.264	50.0	51.9	104	80 - 123	50.2	100	3	30
108-90-7	Chlorobenzene	0.179U	0.179	50.0	50.7	101	83 - 122	49.4	99	3	30
Surrogate											

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425			
Prep Batch	N/A	**GCAL ID**	970500			970501			970502			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/20/2011 13:20			07/20/2011 11:59			07/20/2011 12:26			
		Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
460-00-4	4-Bromofluorobenzene		48.2	96	50	50.9	102	59 - 148	50.4	101		
1868-53-7	Dibromofluoromethane		49.3	99	50	51.3	103	80 - 121	50.7	101		
2037-26-5	Toluene d8		49.7	99	50	50.1	100	71 - 130	49.8	100		
17060-07-0	1,2-Dichloroethane-d4		48	96	50	51.8	104	77 - 123	51.3	103		

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425			
Prep Batch	N/A	**GCAL ID**	970500			970639			970640			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32			
		Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.66J	1.08								
107-02-8	Acrolein		2.33U	2.33								
107-13-1	Acrylonitrile		0.580U	0.580								
74-97-5	Bromochloromethane		0.241U	0.241								
75-27-4	Bromodichloromethane		0.135U	0.135								
75-25-2	Bromoform		0.214U	0.214								
74-83-9	Bromomethane		0.638U	0.638								
75-15-0	Carbon disulfide		0.361U	0.361								
56-23-5	Carbon tetrachloride		0.205U	0.205								
75-00-3	Chloroethane		0.244U	0.244								
136777-61-2	m,p-Xylene		0.355U	0.355								
67-66-3	Chloroform		0.688J	0.225								
74-87-3	Chloromethane		0.565U	0.565								
124-48-1	Dibromochloromethane		0.191U	0.191								
74-95-3	Dibromomethane		0.194U	0.194								
75-71-8	Dichlorodifluoromethane		0.119U	0.119								
75-34-3	1,1-Dichloroethane		0.176U	0.176								
107-06-2	1,2-Dichloroethane		0.182U	0.182								
156-59-2	cis-1,2-Dichloroethene		0.129U	0.129								
156-60-5	trans-1,2-Dichloroethene		0.319U	0.319								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970639			970640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
75-09-2	Methylene chloride		0.481U	0.481								
78-87-5	1,2-Dichloropropane		0.123U	0.123								
10061-01-5	cis-1,3-Dichloropropene		0.326U	0.326								
10061-02-6	trans-1,3-Dichloropropene		0.475U	0.475								
100-41-4	Ethylbenzene		0.219U	0.219								
97-63-2	Ethyl methacrylate		0.431U	0.431	50.0	52.6	105	78 - 118	51.3	103	3	30
591-78-6	2-Hexanone		0.707U	0.707								
98-82-8	Isopropylbenzene (Cumene)		0.093U	0.093								
78-93-3	2-Butanone		4.41J	0.635								
74-88-4	Methyl iodide		1.23U	1.23								
108-10-1	4-Methyl-2-pentanone		0.225U	0.225								
103-65-1	n-Propylbenzene		0.110U	0.110								
100-42-5	Styrene		0.412U	0.412								
127-18-4	Tetrachloroethene		0.204U	0.204								
630-20-6	1,1,1,2-Tetrachloroethane		0.215U	0.215								
79-34-5	1,1,2,2-Tetrachloroethane		0.197U	0.197								
120-82-1	1,2,4-Trichlorobenzene		0.145U	0.145								
71-55-6	1,1,1-Trichloroethane		0.192U	0.192								
79-00-5	1,1,2-Trichloroethane		0.171U	0.171								
75-69-4	Trichlorofluoromethane		0.204U	0.204								
96-18-4	1,2,3-Trichloropropane		0.164U	0.164								
95-63-6	1,2,4-Trimethylbenzene		0.119U	0.119								
108-67-8	1,3,5-Trimethylbenzene		0.114U	0.114								
75-01-4	Vinyl chloride		0.250U	0.250								
95-47-6	o-Xylene		0.868J	0.144								
96-12-8	1,2-Dibromo-3-chloropropane		0.697U	0.697								
106-93-4	1,2-Dibromoethane		0.548U	0.548								
80-62-6	Methyl methacrylate		0.799U	0.799	50.0	52.7	105	73 - 125	52.0	104	1	30
107-12-0	Propionitrile		2.54U	2.54	250	264	106	73 - 133	264	106	0	30
108-05-4	Vinyl acetate		0.221U	0.221								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.239U	0.239								
99-87-6	4-Isopropyltoluene		0.085U	0.085								
110-54-3	n-Hexane		0.508J	0.322								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch	N/A	**GCAL ID**	970500			970639			970640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518								
594-20-7	2,2-Dichloropropane	0.304U	0.304								
76-13-1	Trichlorotrifluoroethane	0.200U	0.200								
563-58-6	1,1-Dichloropropene	0.198U	0.198								
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20								
142-28-9	1,3-Dichloropropane	0.134U	0.134								
108-86-1	Bromobenzene	0.147U	0.147								
95-49-8	2-Chlorotoluene	0.173U	0.173								
106-43-4	4-Chlorotoluene	0.110U	0.110								
98-06-6	tert-Butylbenzene	0.138U	0.138								
135-98-8	sec-Butylbenzene	0.108U	0.108								
541-73-1	1,3-Dichlorobenzene	0.141U	0.141								
106-46-7	1,4-Dichlorobenzene	0.142U	0.142								
104-51-8	n-Butylbenzene	0.142U	0.142								
95-50-1	1,2-Dichlorobenzene	0.254U	0.254								
87-68-3	Hexachlorobutadiene	0.152U	0.152								
91-20-3	Naphthalene	0.175U	0.175								
87-61-6	1,2,3-Trichlorobenzene	0.113U	0.113								
75-05-8	Acetonitrile	1.67U	1.67	250	239	96	59 - 139	241	96	0.8	30
107-05-1	Allyl chloride	0.551U	0.551	50.0	58.1	116	41 - 152	51.0	102	13	30
544-10-5	1-Chlorohexane	0.147U	0.147								
76-01-7	Pentachloroethane	0.817U	0.817	50.0	408	**816***	64 - 156	213	**426***	63	
126-98-7	Methacrylonitrile	0.441U	0.441	50.0	52.0	104	70 - 138	53.5	107	3	30
75-35-4	1,1-Dichloroethene	0.307U	0.307								
71-43-2	Benzene	0.180J	0.106								
79-01-6	Trichloroethene	0.174U	0.174								
108-88-3	Toluene	0.264U	0.264								
108-90-7	Chlorobenzene	0.179U	0.179								
Surrogate											
460-00-4	4-Bromofluorobenzene	48.2	96	50	49.4	99	59 - 148	49.8	100		
1868-53-7	Dibromofluoromethane	49.3	99	50	49.2	98	80 - 121	48.5	97		
2037-26-5	Toluene d8	49.7	99	50	50.2	100	71 - 130	49.9	100		
17060-07-0	1,2-Dichloroethane-d4	48	96	50	51.5	103	77 - 123	51.7	103		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	460842	**Client ID**	MB460818			LCS460818			LCSD460818		
Prep Batch	460818	**GCAL ID**	967877			967878			967879		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/14/2011 06:30			07/14/2011 06:30			07/14/2011 06:30		
		Analytical Date	07/14/2011 15:47			07/14/2011 16:04			07/14/2011 16:20		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	0.303U		0.303								
120-12-7	Anthracene	0.316U		0.316								
56-55-3	Benzo(a)anthracene	0.316U		0.316								
92-87-5	Benzidine	3.92U		3.92								
205-99-2	Benzo(b)fluoranthene	0.217U		0.217								
207-08-9	Benzo(k)fluoranthene	0.236U		0.236								
191-24-2	Benzo(g,h,i)perylene	0.215U		0.215								
50-32-8	Benzo(a)pyrene	0.125U		0.125								
65-85-0	Benzoic acid	0.910U		0.910								
85-68-7	Butyl benzyl phthalate	0.165U		0.165								
111-91-1	Bis(2-Chloroethoxy)methane	0.290U		0.290								
111-44-4	Bis(2-Chloroethyl)ether	0.288U		0.288								
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U		0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U		0.191								
101-55-3	4-Bromophenyl phenyl ether	0.337U		0.337								
7005-72-3	4-Chlorophenyl phenyl ether	0.268U		0.268								
218-01-9	Chrysene	0.433U		0.433								
53-70-3	Dibenz(a,h)anthracene	0.217U		0.217								
132-64-9	Dibenzofuran	0.227U		0.227								
95-50-1	1,2-Dichlorobenzene	0.259U		0.259								
541-73-1	1,3-Dichlorobenzene	0.274U		0.274								
91-94-1	3,3'-Dichlorobenzidine	0.297U		0.297								
120-83-2	2,4-Dichlorophenol	0.217U		0.217								
84-66-2	Diethyl phthalate	0.303U		0.303								
105-67-9	2,4-Dimethylphenol	0.694U		0.694								
131-11-3	Dimethyl phthalate	0.255U		0.255								
117-84-0	Di-n-octyl phthalate	0.167U		0.167								
51-28-5	2,4-Dinitrophenol	2.60U		2.60								
606-20-2	2,6-Dinitrotoluene	0.352U		0.352								
206-44-0	Fluoranthene	0.267U		0.267								
86-73-7	Fluorene	0.288U		0.288								
118-74-1	Hexachlorobenzene	0.249U		0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	460842	**Client ID**	MB460818	LCS460818	LCSD460818
Prep Batch	460818	**GCAL ID**	967877	967878	967879
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/14/2011 06:30	07/14/2011 06:30	07/14/2011 06:30
		Analytical Date	07/14/2011 15:47	07/14/2011 16:04	07/14/2011 16:20
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174								
67-72-1	Hexachloroethane	0.299U	0.299								
78-59-1	Isophorone	0.380U	0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157								
91-57-6	2-Methylnaphthalene	0.255U	0.255								
95-48-7	o-Cresol	0.329U	0.329								
91-20-3	Naphthalene	0.293U	0.293								
98-95-3	Nitrobenzene	0.329U	0.329								
88-75-5	2-Nitrophenol	0.357U	0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364								
85-01-8	Phenanthrene	0.304U	0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275								
100-51-6	Benzyl alcohol	0.355U	0.355								
99-09-2	3-Nitroaniline	0.226U	0.226								
100-01-6	4-Nitroaniline	0.221U	0.221								
84-74-2	Di-n-butyl phthalate	0.189U	0.189								
88-74-4	2-Nitroaniline	0.198U	0.198								
91-58-7	2-Chloronaphthalene	0.221U	0.221								
106-47-8	4-Chloroaniline	0.463U	0.463								
1319-77-3MP	m,p-Cresol	0.352U	0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98								
108-95-2	Phenol	0.150U	0.150	100	22.8	23	13 - 54	22.7	23	0.4	30
95-57-8	2-Chlorophenol	0.276U	0.276	100	59.5	60	44 - 103	59.4	59	0.2	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255	100	80.5	81	40 - 100	79.8	80	0.9	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304	100	82.3	82	51 - 104	80.0	80	3	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234	100	80.2	80	45 - 104	80.7	81	0.6	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234	100	63.0	63	53 - 105	66.7	67	6	30
83-32-9	Acenaphthene	0.268U	0.268	100	81.6	82	58 - 106	81.7	82	0.1	30
100-02-7	4-Nitrophenol	1.83U	1.83	100	26.5	27	13 - 55	28.4	28	7	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263	100	90.8	91	60 - 109	94.3	94	4	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	460842	**Client ID**	MB460818	LCS460818	LCSD460818
Prep Batch	460818	**GCAL ID**	967877	967878	967879
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/14/2011 06:30	07/14/2011 06:30	07/14/2011 06:30
		Analytical Date	07/14/2011 15:47	07/14/2011 16:04	07/14/2011 16:20
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	89.5	90	57 - 118	83.5	84	7	30
129-00-0	Pyrene	0.486U	0.486	100	79.5	80	60 - 113	79.6	80	0.1	30
Surrogate											
4165-60-0	Nitrobenzene-d5	39	78	50	44	88	52 - 120	42.7	85		
321-60-8	2-Fluorobiphenyl	37.8	76	50	44.9	90	16 - 128	41.8	84		
1718-51-0	Terphenyl-d14	41.5	83	50	43.8	88	43 - 138	43	86		
4165-62-2	Phenol-d5	26.8	27	100	32.1	32	10 - 120	30.5	31		
367-12-4	2-Fluorophenol	42.4	42	100	50.5	51	10 - 120	47.9	48		
118-79-6	2,4,6-Tribromophenol	92.9	93	100	98	98	20 - 120	94.1	94		

Analytical Batch	461414	**Client ID**	MB460889	LCS460889	LCSD460889
Prep Batch	460889	**GCAL ID**	968189	968190	968191
Prep Method	3550B	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 08:39	07/20/2011 08:54	07/20/2011 09:09
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	13.1U	13.1								
120-12-7	Anthracene	11.4U	11.4								
56-55-3	Benzo(a)anthracene	25.8U	25.8								
92-87-5	Benzidine	1650U	1650								
205-99-2	Benzo(b)fluoranthene	30.4U	30.4								
207-08-9	Benzo(k)fluoranthene	13.4U	13.4								
191-24-2	Benzo(g,h,i)perylene	10.5U	10.5								
50-32-8	Benzo(a)pyrene	12.3U	12.3								
65-85-0	Benzoic acid	68.0U	68.0								
85-68-7	Butyl benzyl phthalate	5.93U	5.93								
111-91-1	Bis(2-Chloroethoxy)methane	25.8U	25.8								
111-44-4	Bis(2-Chloroethyl)ether	24.3U	24.3								
108-60-1	Bis(2-Chloroisopropyl)ether	20.6U	20.6								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	MB460889			LCS460889			LCSD460889			
Prep Batch	460889	**GCAL ID**	968189			968190			968191			
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	07/19/2011 15:18			07/19/2011 15:18			07/19/2011 15:18			
		Analytical Date	07/20/2011 08:39			07/20/2011 08:54			07/20/2011 09:09			
		Matrix	Solid			Solid			Solid			
SW-846 8270C		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
117-81-7	Bis(2-Ethylhexyl)phthalate		19.6U	19.6								
101-55-3	4-Bromophenyl phenyl ether		18.5U	18.5								
7005-72-3	4-Chlorophenyl phenyl ether		18.7U	18.7								
218-01-9	Chrysene		14.5U	14.5								
53-70-3	Dibenz(a,h)anthracene		11.5U	11.5								
132-64-9	Dibenzofuran		10.7U	10.7								
95-50-1	1,2-Dichlorobenzene		11.1U	11.1								
541-73-1	1,3-Dichlorobenzene		12.5U	12.5								
91-94-1	3,3'-Dichlorobenzidine		306U	306								
120-83-2	2,4-Dichlorophenol		35.4U	35.4								
84-66-2	Diethyl phthalate		20.3U	20.3								
105-67-9	2,4-Dimethylphenol		233U	233								
131-11-3	Dimethyl phthalate		14.1U	14.1								
117-84-0	Di-n-octyl phthalate		4.44U	4.44								
51-28-5	2,4-Dinitrophenol		152U	152								
606-20-2	2,6-Dinitrotoluene		26.6U	26.6								
206-44-0	Fluoranthene		6.52U	6.52								
86-73-7	Fluorene		12.9U	12.9								
118-74-1	Hexachlorobenzene		19.1U	19.1								
87-68-3	Hexachlorobutadiene		20.0U	20.0								
77-47-4	Hexachlorocyclopentadiene		120U	120								
67-72-1	Hexachloroethane		15.9U	15.9								
78-59-1	Isophorone		11.6U	11.6								
193-39-5	Indeno(1,2,3-cd)pyrene		30.9U	30.9								
91-57-6	2-Methylnaphthalene		8.96U	8.96								
95-48-7	o-Cresol		11.7U	11.7								
91-20-3	Naphthalene		13.2U	13.2								
98-95-3	Nitrobenzene		18.4U	18.4								
88-75-5	2-Nitrophenol		24.5U	24.5								
86-30-6	n-Nitrosodiphenylamine		10.5U	10.5								
85-01-8	Phenanthrene		10.6U	10.6								
95-95-4	2,4,5-Trichlorophenol		22.3U	22.3								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	MB460889	LCS460889	LCSD460889
Prep Batch	460889	**GCAL ID**	968189	968190	968191
Prep Method	3550B	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 08:39	07/20/2011 08:54	07/20/2011 09:09
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
88-06-2	2,4,6-Trichlorophenol	78.7U	78.7								
100-51-6	Benzyl alcohol	45.1U	45.1								
99-09-2	3-Nitroaniline	22.0U	22.0								
100-01-6	4-Nitroaniline	163U	163								
84-74-2	Di-n-butyl phthalate	13.1U	13.1								
88-74-4	2-Nitroaniline	24.0U	24.0								
91-58-7	2-Chloronaphthalene	10.6U	10.6								
106-47-8	4-Chloroaniline	22.2U	22.2								
1319-77-3MP	m,p-Cresol	46.6U	46.6								
534-52-1	4,6-Dinitro-2-methylphenol	150U	150								
108-95-2	Phenol	19.8U	19.8	3330	2030	61	55 - 99	2080	62	2	40
95-57-8	2-Chlorophenol	11.6U	11.6	3330	2180	65	54 - 97	2170	65	0.5	40
106-46-7	1,4-Dichlorobenzene	10.4U	10.4	3330	2490	75	45 - 88	2540	76	2	40
621-64-7	n-Nitrosodi-n-propylamine	15.1U	15.1	3330	2640	79	49 - 94	2550	77	3	40
120-82-1	1,2,4-Trichlorobenzene	11.3U	11.3	3330	2620	79	52 - 93	2640	79	0.8	40
59-50-7	4-Chloro-3-methylphenol	31.5U	31.5	3330	2120	64	59 - 102	2080	62	2	40
83-32-9	Acenaphthene	13.1U	13.1	3330	2770	83	59 - 97	2710	81	2	40
100-02-7	4-Nitrophenol	93.1U	93.1	3330	2020	61	56 - 106	2020	61	0	40
121-14-2	2,4-Dinitrotoluene	20.0U	20.0	3330	2970	89	59 - 103	2900	87	2	40
87-86-5	Pentachlorophenol	126U	126	3330	1960	59	50 - 115	2040	61	4	40
129-00-0	Pyrene	15.3U	15.3	3330	3310	99	58 - 109	3190	96	4	40
Surrogate											
4165-60-0	Nitrobenzene-d5	1410	85	1670	1330	80	41 - 123	1350	81		
321-60-8	2-Fluorobiphenyl	1450	87	1670	1450	87	46 - 122	1460	88		
1718-51-0	Terphenyl-d14	1660	100	1670	1700	102	45 - 135	1640	98		
4165-62-2	Phenol-d5	2960	89	3330	2990	90	44 - 124	2960	89		
367-12-4	2-Fluorophenol	2990	90	3330	2880	86	45 - 114	2870	86		
118-79-6	2,4,6-Tribromophenol	2910	87	3330	3310	99	50 - 128	3230	97		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD
Prep Batch	460889	**GCAL ID**	21107141203	21107141204	21107141205
Prep Method	3550B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 12:31	07/20/2011 12:46	07/20/2011 13:01
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
108-95-2	Phenol	0.00	19.5	3290	2760	84	55 - 99	2750	83	0.4	28
95-57-8	2-Chlorophenol	0.00	11.4	3290	2830	86	54 - 97	2830	85	0	31
106-46-7	1,4-Dichlorobenzene	0.00	10.3	3290	2610	79	45 - 88	2520	76	4	36
621-64-7	n-Nitrosodi-n-propylamine	0.00	14.9	3290	2630	80	49 - 94	2640	79	0.4	28
120-82-1	1,2,4-Trichlorobenzene	0.00	11.2	3290	2730	83	52 - 93	2680	80	2	32
59-50-7	4-Chloro-3-methylphenol	0.00	31.1	3290	2750	84	59 - 102	2900	87	5	27
83-32-9	Acenaphthene	0.00	12.9	3290	2850	87	59 - 97	2820	85	1	29
100-02-7	4-Nitrophenol	0.00	91.9	3290	2340	71	56 - 106	2670	80	13	29
121-14-2	2,4-Dinitrotoluene	0.00	19.7	3290	2900	88	59 - 103	3180	95	9	30
87-86-5	Pentachlorophenol	0.00	124	3290	2550	78	50 - 115	2640	79	3	33
129-00-0	Pyrene	0.00	15.1	3290	3320	101	58 - 109	3140	94	6	33
Surrogate											
4165-60-0	Nitrobenzene-d5			1640	1330	81	41 - 123	1320	79		
321-60-8	2-Fluorobiphenyl			1640	1450	88	46 - 122	1420	85		
1718-51-0	Terphenyl-d14			1640	1660	101	45 - 135	1610	97		
4165-62-2	Phenol-d5			3290	2960	90	44 - 124	2970	89		
367-12-4	2-Fluorophenol			3290	2900	88	45 - 114	2890	87		
118-79-6	2,4,6-Tribromophenol			3290	3140	95	50 - 128	3400	102		

General Chromatography Quality Control Summary

Analytical Batch	460990	**Client ID**	MB460679			LCS460679			LCSD460679		
Prep Batch	460679	**GCAL ID**	967297			967298			967299		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/14/2011 11:50			07/14/2011 11:50			07/14/2011 11:50		
		Analytical Date	07/15/2011 11:00			07/15/2011 11:18			07/15/2011 11:36		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	778	78	50 - 150	702	70	10	40
Surrogate												
84-15-1	o-Terphenyl		41.4	83	50	45.5	91	57 - 115	35.9	72		

Analytical Batch	461355	**Client ID**	MB460789			LCS460789			LCSD460789		
Prep Batch	460789	**GCAL ID**	967734			967735			967736		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 08:54			07/18/2011 09:13			07/18/2011 09:32		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		1290U	1290	33300	28400	85	50 - 124	29000	87	2	40
Surrogate												
84-15-1	o-Terphenyl		1460	88	1670	1570	94	67 - 120	1550	93		

Analytical Batch	461355	**Client ID**	106037IDW1			967673MS			967673MSD		
Prep Batch	460789	**GCAL ID**	21107131401			967737			967738		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 10:25			07/18/2011 10:43			07/18/2011 11:00		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		6250	1270	32800	29000	69	50 - 124	29700	71	2	40
Surrogate												
84-15-1	o-Terphenyl				1640	1520	93	67 - 120	1470	90		

General Chromatography Quality Control Summary

Analytical Batch	461409	**Client ID**	MB460766			LCS460766			LCSD460766		
Prep Batch	460766	**GCAL ID**	967631			967632			967633		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/18/2011 10:30			07/18/2011 10:30			07/18/2011 10:30		
		Analytical Date	07/19/2011 08:28			07/19/2011 08:45			07/19/2011 09:03		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		1290U	1290	33300	26600	80	50 - 124	26400	79	1	40
Surrogate												
84-15-1	o-Terphenyl		1490	89	1670	1480	89	67 - 120	1470	88		

Analytical Batch	461409	**Client ID**	FFOR0471			FFOR0471-MS			FFOR0471-MSD		
Prep Batch	460766	**GCAL ID**	21107121125			21107121126			21107121127		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/18/2011 10:30			07/18/2011 10:30			07/18/2011 10:30		
		Analytical Date	07/19/2011 12:02			07/19/2011 12:19			07/19/2011 12:37		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		6250	1290	33300	31300	75	50 - 124	44300	115	35	40
Surrogate												
84-15-1	o-Terphenyl				1670	1500	90	67 - 120	1580	96		

General Chromatography Quality Control Summary

Analytical Batch 461327		**Client ID**	MB461327		LCS461327		
Prep Batch N/A		**GCAL ID**	970079		970080		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/19/2011 22:01		07/19/2011 21:13		
		Matrix	Solid		Solid		
SW-846 8015B Modified		**Units**	ug/Kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	650U	650	25000	25500	102	67 - 127
Surrogate							
106-39-8	Bromochlorobenzene	1430	95	1500	1560	104	47 - 164

Analytical Batch 461327		**Client ID**	AOCU-HA66-2		AOCU-HA66--2-MS			AOCU-HA66--2-MSD			
Prep Batch N/A		**GCAL ID**	21107141203		21107141204			21107141205			
		Sample Type	SAMPLE		MS			MSD			
		Analytical Date	07/20/2011 03:12		07/20/2011 03:36			07/20/2011 04:00			
		Matrix	Solid		Solid			Solid			
SW-846 8015B Modified		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics	0.00	603	23200	21200	91	67 - 127	26200	96	21	40
Surrogate											
106-39-8	Bromochlorobenzene			1390	1440	103	47 - 164	1720	105		

Analytical Batch 461421		**Client ID**	MB461421		LCS461421		
Prep Batch N/A		**GCAL ID**	970478		970479		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/20/2011 16:11		07/20/2011 12:15		
		Matrix	Water		Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	539	108	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	30.9	103	30	34.3	114	49 - 136

General Chromatography Quality Control Summary

Analytical Batch 461421		**Client ID**	S-4 INFLUENT			967516MS			967516MSD		
Prep Batch N/A		**GCAL ID**	21107130201			970480			970481		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/20/2011 16:31			07/20/2011 16:51			07/20/2011 17:13		
		Matrix	Water			Water			Water		
SW-846 8015B Modified		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics		45200	1300	50000	93800	97	67 - 171	87900	85	6	31
Surrogate												
106-39-8	Bromochlorobenzene				3000	3340	111	49 - 136	4040	135		

General Chromatography Quality Control Summary

Analytical Batch	460992	**Client ID**	MB460817			LCS460817			LCSD460817		
Prep Batch	460817	**GCAL ID**	967874			967875			967876		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/14/2011 11:50			07/14/2011 11:50			07/14/2011 11:50		
		Analytical Date	07/15/2011 11:00			07/15/2011 11:54			07/15/2011 12:12		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1640	82	50 - 150	1710	85	4	40
Surrogate												
84-15-1	o-Terphenyl		41.8	84	50	42.3	85	57 - 115	41.7	83		

Analytical Batch	461357	**Client ID**	MB460792			LCS460792			LCSD460792		
Prep Batch	460792	**GCAL ID**	967751			967752			967753		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 08:54			07/18/2011 09:49			07/18/2011 10:07		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		1910U	1910	66700	55900	84	47 - 120	51300	77	9	40
Surrogate												
84-15-1	o-Terphenyl		1470	88	1670	1570	94	67 - 120	1540	92		

Analytical Batch	461357	**Client ID**	106040IDW1			967678MS			967678MSD		
Prep Batch	460792	**GCAL ID**	21107131402			967754			967755		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/16/2011 10:00			07/16/2011 10:00			07/16/2011 10:00		
		Analytical Date	07/18/2011 11:18			07/18/2011 11:36			07/18/2011 12:30		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		7220	1880	65600	55200	73	47 - 120	57400	76	4	40
Surrogate												
84-15-1	o-Terphenyl				1640	1570	96	67 - 120	1540	94		

General Chromatography Quality Control Summary

Analytical Batch	461410	**Client ID**	MB461191			LCS461191			LCSD461191		
Prep Batch	461191	**GCAL ID**	969523			969524			969525		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/18/2011 10:30			07/18/2011 10:30			07/18/2011 10:30		
		Analytical Date	07/19/2011 08:28			07/19/2011 09:21			07/19/2011 09:39		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		1910U	1910	66700	56700	85	47 - 120	61000	92	7	40
Surrogate												
84-15-1	o-Terphenyl		1500	90	1670	1630	98	67 - 120	1620	97		

Analytical Batch	461410	**Client ID**	AOCU-HA50-2			967700MS			967700MSD		
Prep Batch	461191	**GCAL ID**	21107131607			969526			969527		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/18/2011 10:30			07/18/2011 10:30			07/18/2011 10:30		
		Analytical Date	07/19/2011 17:25			07/19/2011 17:43			07/19/2011 18:01		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		1460	1910	66400	51200	75	47 - 120	48900	71	5	40
Surrogate												
84-15-1	o-Terphenyl		1420	85	1660	1530	92	67 - 120	1530	92		

Inorganics Quality Control Summary

Analytical Batch	460971	**Client ID**	MB460813	LCS460813	LCSD460813
Prep Batch	460813	**GCAL ID**	967848	967849	969485
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	7470A	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/17/2011 16:11	07/17/2011 16:12	07/18/2011 12:43
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00490	98	88 - 111	0.00520	104	6	20

Inorganics Quality Control Summary

Analytical Batch	460884	**Client ID**	MB460811	LCS460811
Prep Batch	460811	**GCAL ID**	967831	967832
Prep Method	SW-846 7471B	**Sample Type**	Method Blank	LCS
		Prep Date	07/13/2011 17:00	07/13/2011 17:00
		Analytical Date	07/14/2011 13:15	07/14/2011 13:17
		Matrix	Solid	Solid

SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.0034U	0.0034	0.30	0.32	107	80 - 120

Analytical Batch	460884	**Client ID**	AOCU-HA12-2	967694MS	967694MSD
Prep Batch	460811	**GCAL ID**	21107131601	967833	967834
Prep Method	SW-846 7471B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/13/2011 17:00	07/13/2011 17:00	07/13/2011 17:00
		Analytical Date	07/14/2011 13:18	07/14/2011 13:20	07/14/2011 13:22
		Matrix	Solid	Solid	Solid

SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.010	0.0034	0.30	0.33	106	75 - 125	0.33	105	0.3	20

Inorganics Quality Control Summary

Analytical Batch	461170	**Client ID**	MB460809	LCS460809
Prep Batch	460809	**GCAL ID**	967827	967828
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3050B	**Prep Date**	07/13/2011 17:30	07/13/2011 17:30
		Analytical Date	07/18/2011 13:42	07/18/2011 13:48
		Matrix	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	2.22B	0.63	200	194	97	80 - 120
7440-36-0	Antimony	0.12U	0.12	20.0	19.2	96	80 - 120
7440-38-2	Arsenic	0.088U	0.088	20.0	20.2	101	80 - 120
7440-39-3	Barium	0.026B	0.011	20.0	20.1	101	80 - 120
7440-41-7	Beryllium	0.0028B	0.0028	20.0	20.1	101	80 - 120
7440-43-9	Cadmium	0.0098U	0.0098	20.0	20.3	102	80 - 120
7440-70-2	Calcium	7.88B	0.92	200	203	102	80 - 120
7440-47-3	Chromium	0.023B	0.012	20.0	20.4	102	80 - 120
7440-48-4	Cobalt	0.022U	0.022	20.0	20.0	100	80 - 120
7440-50-8	Copper	0.046B	0.033	20.0	20.1	101	80 - 120
7439-89-6	Iron	1.57B	0.91	200	200	100	80 - 120
7439-92-1	Lead	0.072U	0.072	20.0	20.1	100	80 - 120
7439-95-4	Magnesium	1.34U	1.34	200	197	99	80 - 120
7439-96-5	Manganese	0.046B	0.039	20.0	20.2	101	80 - 120
7440-02-0	Nickel	0.031U	0.031	20.0	20.2	101	80 - 120
7440-09-7	Potassium	7.88B	1.82	400	383	96	80 - 120
7782-49-2	Selenium	0.19U	0.19	20.0	20.2	101	80 - 120
7440-22-4	Silver	0.036B	0.035	20.0	19.4	97	80 - 120
7440-23-5	Sodium	4.71B	3.51	800	719	90	80 - 120
7440-28-0	Thallium	0.10U	0.10	20.0	19.2	96	80 - 120
7440-62-2	Vanadium	0.050U	0.050	20.0	20.6	103	80 - 120
7440-66-6	Zinc	0.56B	0.33	20.0	20.0	100	80 - 120

Inorganics Quality Control Summary

Analytical Batch	461170	**Client ID**	AOCU-HA12-2	967694MS	967694MSD
Prep Batch	460809	**GCAL ID**	21107131601	967829	967830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/13/2011 17:30	07/13/2011 17:30	07/13/2011 17:30
		Analytical Date	07/18/2011 14:28	07/18/2011 14:35	07/18/2011 14:41
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	1850	3.16	200	2420	**281***	75 - 125	2280	**215***	6	20
7440-36-0	Antimony	0.80	0.59	20.0	13.8	**65***	75 - 125	12.3	**58***	11	20
7440-38-2	Arsenic	0.69	0.44	20.0	23.5	114	75 - 125	21.3	103	10	20
7440-39-3	Barium	20.9	0.055	20.0	43.8	115	75 - 125	40.5	98	8	20
7440-41-7	Beryllium	0.027	0.014	20.0	20.6	103	75 - 125	19.1	96	7	20
7440-43-9	Cadmium	0.40	0.049	20.0	19.8	97	75 - 125	18.3	90	8	20
7440-70-2	Calcium	166000	4.61	200	143000	**-10000***	75 - 125	138000	**-10000***	3	20
7440-47-3	Chromium	1.77	0.058	20.0	22.2	102	75 - 125	21.2	97	4	20
7440-48-4	Cobalt	0.52	0.11	20.0	20.1	98	75 - 125	18.9	92	6	20
7440-50-8	Copper	4.82	0.16	20.0	25.0	101	75 - 125	23.5	94	6	20
7439-89-6	Iron	1290	4.53	200	1610	**159***	75 - 125	1540	125	4	20
7439-92-1	Lead	0.92	0.36	20.0	21.2	102	75 - 125	20.2	96	5	20
7439-95-4	Magnesium	13400	6.70	200	13600	88	75 - 125	12300	**-600***	10	20
7439-96-5	Manganese	39.0	0.20	20.0	68.3	**146***	75 - 125	58.0	95	16	20
7440-02-0	Nickel	0.85	0.16	20.0	21.0	101	75 - 125	20.0	96	5	20
7440-09-7	Potassium	725	9.10	400	1340	**154***	75 - 125	1270	**135***	6	20
7782-49-2	Selenium	0.0	0.96	20.0	19.1	96	75 - 125	18.4	92	4	20
7440-22-4	Silver	0.18	0.17	20.0	19.2	95	75 - 125	17.9	88	7	20
7440-28-0	Thallium	0.0	0.50	20.0	18.4	92	75 - 125	18.9	94	2	20
7440-62-2	Vanadium	10.8	0.25	20.0	31.9	106	75 - 125	30.3	97	5	20
7440-66-6	Zinc	4.47	1.66	20.0	25.2	104	75 - 125	24.0	98	5	20

Analytical Batch	461307	**Client ID**	AOCU-HA12-2	967694MS	967694MSD
Prep Batch	460809	**GCAL ID**	21107131601	967829	967830
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/13/2011 17:30	07/13/2011 17:30	07/13/2011 17:30
		Analytical Date	07/19/2011 16:54	07/19/2011 17:00	07/19/2011 17:19
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-23-5	Sodium	11200	17.6	800	9930	**-200***	75 - 125	11000	**-30***	10	20

Inorganics Quality Control Summary

Analytical Batch	461307	**Client ID**	MB460814	LCS460814	LCSD460814
Prep Batch	460814	**GCAL ID**	967853	967854	968998
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS	LCSD
	Dissolved	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/19/2011 15:47	07/19/2011 15:54	07/19/2011 16:00
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.71	94	87 - 111	4.72	94	0.2	20
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	101	88 - 108	0.49	98	3	20
7440-38-2	Arsenic	0.0029B	0.0025	0.50	0.52	104	88 - 109	0.52	104	0.3	20
7440-39-3	Barium	0.014	0.00011	0.50	0.51	102	92 - 112	0.51	102	0.2	20
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.49	99	89 - 113	0.49	99	0.02	20
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.52	104	88 - 111	0.52	104	0.01	20
7440-70-2	Calcium	0.026U	0.026	5.00	4.93	99	90 - 111	4.99	100	1	20
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	100	90 - 113	0.50	100	0.1	20
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.52	104	89 - 111	0.52	104	0.3	20
7440-50-8	Copper	0.0014U	0.0014	0.50	0.49	97	86 - 112	0.48	97	0.2	20
7439-89-6	Iron	0.038U	0.038	5.00	4.89	98	89 - 116	4.92	98	0.7	20
7439-92-1	Lead	0.0014U	0.0014	0.50	0.52	105	89 - 109	0.52	105	0.07	20
7439-95-4	Magnesium	0.018B	0.014	5.00	5.10	102	92 - 113	5.17	103	1	20
7439-96-5	Manganese	0.0051B	0.0012	0.50	0.50	101	90 - 110	0.50	101	0.2	20
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.53	105	89 - 111	0.52	105	0.4	20
7440-09-7	Potassium	0.053U	0.053	10.0	9.66	97	89 - 114	9.66	97	0.02	20
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.53	105	90 - 110	0.52	104	0.5	20
7440-22-4	Silver	0.00060U	0.00060	0.50	0.49	98	86 - 120	0.49	97	0.3	20
7440-23-5	Sodium	0.086B	0.051	20.0	19.3	96	90 - 117	19.5	97	1	20
7440-28-0	Thallium	0.0020B	0.0018	0.50	0.53	107	88 - 108	0.53	107	0.3	20
7440-62-2	Vanadium	0.0014B	0.00082	0.50	0.50	99	91 - 111	0.49	99	0.2	20
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.50	101	84 - 111	0.51	101	0.3	20

General Chemistry Quality Control Summary

Analytical Batch 460786	**Client ID**	MB460786			LCS460786		
Prep Batch N/A	**GCAL ID**	967720			967721		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/13/2011 14:20			07/13/2011 14:22		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.486	97	89.5 -110.5

Analytical Batch 460786	**Client ID**	AOCU-EB01			967703MS			967703MSD			
Prep Batch N/A	**GCAL ID**	21107131610			967722			967723			
	Sample Type	EQBK			MS			MSD			
	Analytical Date	07/13/2011 14:24			07/13/2011 14:25			07/13/2011 14:27			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.086	0.003	0.500	0.563	95	89.5 -110.5	0.565	96	0.4	25

Analytical Batch 461029	**Client ID**	MB461028			LCS461028		
Prep Batch 461028	**GCAL ID**	968908			968909		
Prep Method EPA 353.2	**Sample Type**	Method Blank			LCS		
	Prep Date	07/14/2011 14:00			07/14/2011 14:00		
	Analytical Date	07/15/2011 15:43			07/15/2011 15:44		
	Matrix	Solid			Solid		
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.026U	0.026	5.00	5.00	100	90 - 110

General Chemistry Quality Control Summary

Analytical Batch 461029	**Client ID**	AOCU-HA24-1			AOCU-HA24-1-MS			AOCU-HA24-1-MSD			
Prep Batch 461028	**GCAL ID**	21107121305			21107121306			21107121307			
Prep Method EPA 353.2	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	07/14/2011 14:00			07/14/2011 14:00			07/14/2011 14:00			
	Analytical Date	07/15/2011 17:18			07/15/2011 17:20			07/15/2011 17:21			
	Matrix	Solid			Solid			Solid			
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		29.6	0.260	50.0	80.3	101	90 - 110	80.3	101	0.01	25

Analytical Batch 461029	**Client ID**	AOCU-HA50-2			967700MS			967700MSD			
Prep Batch 461028	**GCAL ID**	21107131607			968910			968911			
Prep Method EPA 353.2	**Sample Type**	SAMPLE			MS			MSD			
	Prep Date	07/14/2011 14:00			07/14/2011 14:00			07/14/2011 14:00			
	Analytical Date	07/15/2011 17:10			07/15/2011 17:11			07/15/2011 17:12			
	Matrix	Solid			Solid			Solid			
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		9.15	0.130	25.0	34.0	100	90 - 110	33.9	99	0.3	25

DHL ANALYTICAL

August 05, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1107169

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 10 sample(s) on 7/21/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#11071165

Chain of Custody Record

Submitted by		Bill to	
Client:	Gulf Coast Analytical Labs	Client:	Gulf Coast Analytical Labs
Address:	7979 GSRI Avenue	Address:	7979 GSRI Avenue
	Baton Rouge, LA 70820		Baton Rouge, LA 70820
Contact:	Dana Merrill	Contact:	Dana Merrill
Phone:	(225)769-4900	Phone:	(225)769-4900
Fax:	(225)767-5717	Fax:	(225)767-5717

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0683

Project Name/Number: 4771

Sampled By:

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860)	Remarks:	Lab ID
01	S	7/11/2011	13:30		X	21107131601		1	X	AOCU-HA12-2	
02	S	7/11/2011	14:30		X	21107131602		1	X	AOCU-HA35-3	
03	S	7/12/2011	8:05		X	21107131603		1	X	AOCU-HA43-2	
04	S	7/12/2011	8:30		X	21107131604		1	X	AOCU-HA45-1.5	
05	S	7/12/2011	8:30		X	21107131605		1	X	AOCU-HA45-1.5-A	
06	S	7/12/2011	9:00		X	21107131606		1	X	AOCU-HA47-2	
07	S	7/12/2011	9:20		X	21107131607		1	X	AOCU-HA50-2	
08	S	7/12/2011	10:35		X	21107131608		1	X	AOCU-HA56-1	
09	S	7/12/2011	10:55		X	21107131609		1	X	AOCU-HA57-1	
10	W	7/11/2011	15:45		X	21107131610		1	X	AOCU-EB01	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	7/20/11	1700
[signature]	[signature]	7/21/11	1010

Note: Receiving temp 2.5° Therm #57

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

No Custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 20JUL11
ACTWGT: 88.0 LB MAN
CAD: 664080/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 380-0222

INV:
PO:
REF:

RT 512 1 C
6322
07.21

FZ

FedEx
Express
E

TRK# 4932 5568 6322

THU - 21 JUL A1
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

Part # 158148-434 NRT 03/07

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 7/21/2011

Work Order Number 1107169

Received by JB

Checklist completed by: [signature] 7/21/11 (Signature / Date)

Reviewed by BS 7-21-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature

08/05/11
Date

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
ICS-110727		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst 8/3/11 Date

2nd Level Review 8/3/11 Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
1107168-03A		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst

8/3/11
Date

2nd Level Review

8/3/11
Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/27/2011 16:42
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Average 2116

SJ 8/4/11

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

SJ 8/3/11

8/3/11 SJ

Internal Standard Summary

Sequence Name:	110726_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110727	2198.723
LCVL1-110727	2275.425
ICS1-110727	2389.928
LRB3-110727	2492.483
LCS-47407	1899.214
MB-47407	2002.376
1107169-10A	1858.658
1107170-02A	1779.491
1107171-01A	1894.365
1107116-34A	1781.393
1107116-34A	1596.240
1107170-01A	1923.795
1107170-01AMS	1952.528
1107170-01AMSD	2037.454
CCV1-110727	1965.330
LRB4-110727	1671.368
LCVL2-110727	2387.183

8/3/11
8

8/23/11

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/28/2011 9:21
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

8/2/11 8/13/11

Internal Standard Summary

Sequence Name:	110728_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110728	1987.606
LCVL1-110728	1623.803
ICS-110728	1674.810
LRB1-110728	2042.303
LCS-47445	1737.788
MB-47445	1798.954
1107115-23A	1531.744
1107115-23A	1264.770
1107168-01A	1660.174
1107168-02A	1687.163
1107168-03A	1761.626
1107168-04A	1672.380
1107168-05A	1647.878
1107168-06A	1637.325
1107168-07A	1698.739
1107168-04AMS	1484.539

JH 8/5/11

8/5/11 [illegible]

1107168-04AMSD	1629.799
CCV1-110728	1465.324
LCVL2-110728	1598.693
LRB2-110728	1703.970
LCS-47446	1745.134
MB-47446	1862.168
1107169-01A	1856.633
1107169-02A	1918.114
1107169-03A	1785.668
1107169-04A	1896.413
1107169-05A	2920.568
1107169-06A	2903.445
1107169-07A	2832.597
1107169-08A	2707.413
1107169-09A	2276.764
1107170-03A	2192.373
CCV2-110728	1754.324
LCVL3-110728	2175.384
LRB3-110728	1459.588
1107170-04A	689.510
1107171-02A	1849.075
1107171-03A	2110.881
1107171-04A	1469.902
1107171-05A	1753.168
1107171-06A	1661.917
1107171-07A	1237.265
1107171-08A	1210.517
1107171-09A	1322.133
1107171-03AMS	1108.983
1107171-03AMSD	1172.345
CCV3-110728	1102.353
LCVL4-110728	1274.465
LRB4-110728	1408.374

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 8/5/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1107169
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?			X		
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 8/5/2011
Reviewer Name: Angie O'Donnell	Laboratory Work Order:1107169

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT:	GCAL LAB	
Project:	DoD Perchlorate	**CASE NARRATIVE**
Lab Order:	1107169	

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method E332.0 or SW6860 - Perchlorate Analysis (Parameter is ELAP Accredited but not NELAC Certified)
Method D2216 - Percent Moisture

Exception Report R1-01

The samples were received on and log-in performed on 7/21/2011. A total of 10 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report S5-02

For Perchlorate Analysis, some samples and/or standards were manually integrated. Please refer to the table on page 7-8 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

Communication via email between Dana Merrill of GCAL and John DuPont of DHL on 6/28/2011 and 7/20/2011, regarding project specifications have been files in this workorder folder.

This sample delivery group arrived at DHL Analytical 7/21/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107169

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1107169-01	21107131601		07/11/11 01:30 PM	07/21/11
1107169-02	21107131602		07/11/11 02:30 PM	07/21/11
1107169-03	21107131603		07/12/11 08:05 AM	07/21/11
1107169-04	21107131604		07/12/11 08:30 AM	07/21/11
1107169-05	21107131605		07/12/11 08:30 AM	07/21/11
1107169-06	21107131606		07/12/11 09:00 AM	07/21/11
1107169-07	21107131607		07/12/11 09:20 AM	07/21/11
1107169-08	21107131608		07/12/11 10:35 AM	07/21/11
1107169-09	21107131609		07/12/11 10:55 AM	07/21/11
1107169-10	21107131610		07/11/11 03:45 PM	07/21/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107169

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1107169-01A	21107131601	07/11/11 01:30 PM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131601	07/11/11 01:30 PM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-02A	21107131602	07/11/11 02:30 PM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131602	07/11/11 02:30 PM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-03A	21107131603	07/12/11 08:05 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131603	07/12/11 08:05 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-04A	21107131604	07/12/11 08:30 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131604	07/12/11 08:30 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-05A	21107131605	07/12/11 08:30 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131605	07/12/11 08:30 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-06A	21107131606	07/12/11 09:00 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131606	07/12/11 09:00 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-07A	21107131607	07/12/11 09:20 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131607	07/12/11 09:20 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-08A	21107131608	07/12/11 10:35 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131608	07/12/11 10:35 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-09A	21107131609	07/12/11 10:55 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107131609	07/12/11 10:55 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107169-10A	21107131610	07/11/11 03:45 PM	Aqueous	SW6860	Perchlorate Prep	07/27/11 01:35 PM	47407

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107169

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1107169-01A	21107131601	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131601	Soil	SW6860	Perchlorate - Soil	47446	1	07/28/11 05:33 PM	ICMS_110728A
1107169-02A	21107131602	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131602	Soil	SW6860	Perchlorate - Soil	47446	1	07/28/11 05:50 PM	ICMS_110728A
1107169-03A	21107131603	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131603	Soil	SW6860	Perchlorate - Soil	47446	1	07/28/11 06:08 PM	ICMS_110728A
1107169-04A	21107131604	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131604	Soil	SW6860	Perchlorate - Soil	47446	1	07/28/11 06:26 PM	ICMS_110728A
1107169-05A	21107131605	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131605	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 08:36 AM	ICMS_110728A
1107169-06A	21107131606	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131606	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 08:53 AM	ICMS_110728A
1107169-07A	21107131607	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131607	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 09:11 AM	ICMS_110728A
1107169-08A	21107131608	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131608	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 09:28 AM	ICMS_110728A
1107169-09A	21107131609	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107131609	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 09:45 AM	ICMS_110728A
1107169-10A	21107131610	Aqueous	SW6860	Perchlorate - Water	47407	1	07/27/11 06:50 PM	ICMS_110727A

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131601
Lab ID: 1107169-01
Collection Date: 07/11/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00147	0.00147	0.00737	NU	mg/Kg-dry	1	07/28/11 05:33 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	33.4	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131602
Lab ID: 1107169-02
Collection Date: 07/11/11 02:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00143	0.00143	0.00715	NU	mg/Kg-dry	1	07/28/11 05:50 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	30.1	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131603
Lab ID: 1107169-03
Collection Date: 07/12/11 08:05 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00140	0.00140	0.00698	NU	mg/Kg-dry	1	07/28/11 06:08 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	28.3	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131604
Lab ID: 1107169-04
Collection Date: 07/12/11 08:30 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00148	0.00148	0.00738	NU	mg/Kg-dry	1	07/28/11 06:26 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	32.6	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131605
Lab ID: 1107169-05
Collection Date: 07/12/11 08:30 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00141	0.00141	0.00704	NU	mg/Kg-dry	1	07/29/11 08:36 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	29.6	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131606
Lab ID: 1107169-06
Collection Date: 07/12/11 09:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00140	0.00140	0.00701	NU	mg/Kg-dry	1	07/29/11 08:53 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	29.1	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131607
Lab ID: 1107169-07
Collection Date: 07/12/11 09:20 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00150	0.00150	0.00750	NU	mg/Kg-dry	1	07/29/11 09:11 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	33.5	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21107131608
Project:	DoD Perchlorate	**Lab ID:**	1107169-08
Project No:	4771	**Collection Date:**	07/12/11 10:35 AM
Lab Order:	1107169	**Matrix:**	Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00587	0.00144	0.00721	JN	mg/Kg-dry	1	07/29/11 09:28 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	31.7	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT:	GCAL LAB	**Client Sample ID:**	21107131609
Project:	DoD Perchlorate	**Lab ID:**	1107169-09
Project No:	4771	**Collection Date:**	07/12/11 10:55 AM
Lab Order:	1107169	**Matrix:**	Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00137	0.00137	0.00685	NU	mg/Kg-dry	1	07/29/11 09:45 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	27.6	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107169

Client Sample ID: 21107131610
Lab ID: 1107169-10
Collection Date: 07/11/11 03:45 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	07/27/11 06:50 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1107169
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	LCS-47407	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	LCS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:15 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000323	0.000300	0.000300	0	108	85	115			N

Sample ID:	MB-47407	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MBLK	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:32 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1107170-01AMS	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 08:54 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0698	0.0148	0.0148	0.0529	114	85	115			N

Sample ID:	1107170-01AMSD	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MSD	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:12 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0659	0.0148	0.0148	0.0529	87.7	85	115	5.78	20	N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107169
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	ICV1-110727	Batch ID:	R56134		TestNo:		SW6860		Units:		mg/L
SampType:	ICV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 04:42 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00206	0.000300	0.00200	0	103	85	115			N

Sample ID:	LCVL1-110727	Batch ID:	R56134		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:00 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000240	0.000300	0.000200	0	120	70	130			N

Sample ID:	ICS1-110727	Batch ID:	R56134		TestNo:		SW6860		Units:		mg/L
SampType:	ICS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:18 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000257	0.000300	0.000300	0	85.7	85	115			N

Sample ID:	CCV1-110727	Batch ID:	R56134		TestNo:		SW6860		Units:		mg/L
SampType:	CCV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:29 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.000300	0.00500	0	98.4	85	115			N

Sample ID:	LCVL2-110727	Batch ID:	R56134		TestNo:		SW6860		Units:		mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 10:05 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000207	0.000300	0.000200	0	104	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107169
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	LCS-47446	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 04:57 PM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00505	0.00500	0.00450	0	112	85	115			N

Sample ID:	MB-47446	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg
SampType:	MBLK	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 05:15 PM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00100	0.00500								NU

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107169
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	ICV1-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	ICV	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 09:21 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00195	0.00500	0.00200	0	97.3	85	115			N
Sample ID:	LCVL1-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 09:38 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000208	0.00500	0.000200	0	104	70	130			N
Sample ID:	ICS-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	ICS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 10:57 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000339	0.00500	0.000300	0	113	70	130			N
Sample ID:	CCV1-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 03:46 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00508	0.00500	0.00500	0	102	80	120			N
Sample ID:	LCVL2-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 04:04 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000252	0.00500	0.000200	0	126	70	130			N
Sample ID:	CCV2-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 10:19 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00486	0.00500	0.00500	0	97.2	80	120			N
Sample ID:	LCVL3-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 10:53 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000217	0.00500	0.000200	0	109	70	130			N
Sample ID:	CCV3-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 02:34 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00520	0.00500	0.00500	0	104	80	120			N
Sample ID:	LCVL4-110728	Batch ID:	R56137		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 03:08 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000202	0.00500	0.000200	0	101	70	130			N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107169
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_110726C

Sample ID:	1107168-04ADUP	Batch ID:	47412		TestNo:		D2216		Units:		WT%
SampType:	DUP	Run ID:	PMOIST_110726C		Analysis Date:		07/27/11 08:40 AM		Prep Date:		07/26/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture		28.5	0	0	29.21				2.47	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 08/05/11

Lab Order: 1107169
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110727A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110727	-----	SW6860	R56134	1	07/27/11 04:42 PM	
LCVL1-110727	-----	SW6860	R56134	1	07/27/11 05:00 PM	
ICS1-110727	-----	SW6860	R56134	1	07/27/11 05:18 PM	
LRB3-110727	-----	SW6860	R56134	1	07/27/11 05:36 PM	
LCS-47407	-----	SW6860	47407	1	07/27/11 06:15 PM	07/27/11
MB-47407	-----	SW6860	47407	1	07/27/11 06:32 PM	07/27/11
1107169-10A	21107131610	SW6860	47407	1	07/27/11 06:50 PM	07/27/11
1107170-01AMS	-----	SW6860	47407	1	07/27/11 08:54 PM	07/27/11
1107170-01AMSD	-----	SW6860	47407	1	07/27/11 09:12 PM	07/27/11
CCV1-110727	-----	SW6860	R56134	1	07/27/11 09:29 PM	
LRB4-110727	-----	SW6860	R56134	1	07/27/11 09:47 PM	
LCVL2-110727	-----	SW6860	R56134	1	07/27/11 10:05 PM	

DHL Analytical

Date: 08/05/11

Lab Order: 1107169
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110728A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110728	-----	SW6860	R56137	1	07/28/11 09:21 AM	
LCVL1-110728	-----	SW6860	R56137	1	07/28/11 09:38 AM	
ICS-110728	-----	SW6860	R56137	1	07/28/11 10:57 AM	
LRB1-110728	-----	SW6860	R56137	1	07/28/11 11:15 AM	
CCV1-110728	-----	SW6860	R56137	1	07/28/11 03:46 PM	
LCVL2-110728	-----	SW6860	R56137	1	07/28/11 04:04 PM	
LRB2-110728	-----	SW6860	R56137	1	07/28/11 04:39 PM	
LCS-47446	-----	SW6860	47446	1	07/28/11 04:57 PM	07/28/11
MB-47446	-----	SW6860	47446	1	07/28/11 05:15 PM	07/28/11
1107169-01A	21107131601	SW6860	47446	1	07/28/11 05:33 PM	07/28/11
1107169-02A	21107131602	SW6860	47446	1	07/28/11 05:50 PM	07/28/11
1107169-03A	21107131603	SW6860	47446	1	07/28/11 06:08 PM	07/28/11
1107169-04A	21107131604	SW6860	47446	1	07/28/11 06:26 PM	07/28/11
1107169-05A	21107131605	SW6860	47446	1	07/29/11 08:36 AM	07/28/11
1107169-06A	21107131606	SW6860	47446	1	07/29/11 08:53 AM	07/28/11
1107169-07A	21107131607	SW6860	47446	1	07/29/11 09:11 AM	07/28/11
1107169-08A	21107131608	SW6860	47446	1	07/29/11 09:28 AM	07/28/11
1107169-09A	21107131609	SW6860	47446	1	07/29/11 09:45 AM	07/28/11
CCV2-110728	-----	SW6860	R56137	1	07/29/11 10:19 AM	
LCVL3-110728	-----	SW6860	R56137	1	07/29/11 10:53 AM	
LRB3-110728	-----	SW6860	R56137	1	07/29/11 11:10 AM	
1107171-03AMS	-----	SW6860	47446	1	07/29/11 02:00 PM	07/28/11
1107171-03AMSD	-----	SW6860	47446	1	07/29/11 02:17 PM	07/28/11
CCV3-110728	-----	SW6860	R56137	1	07/29/11 02:34 PM	
LCVL4-110728	-----	SW6860	R56137	1	07/29/11 03:08 PM	
LRB4-110728	-----	SW6860	R56137	1	07/29/11 03:25 PM	

DHL Analytical

Date: 08/05/11

Lab Order: 1107169
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: PMOIST_110726C

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1107168-04ADUP	-----	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-01A	21107131601	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-02A	21107131602	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-03A	21107131603	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-04A	21107131604	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-05A	21107131605	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-06A	21107131606	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-07A	21107131607	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-08A	21107131608	D2216	47412	1	07/27/11 08:40 AM	07/26/11
1107169-09A	21107131609	D2216	47412	1	07/27/11 08:40 AM	07/26/11

NationView/4771/211071316/7/20/11

NATIONVIEW

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 071211-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-HA12-2	AOCU-HA12	11072011	1330	1-2	N	1	SO	3		X		X	X	X	X										1	1
AOCU-HA35-3	AOCU-HA35	11072011	1430	2-3	N	1	SO	3		X		X	X	X	X										1	2
AOCU-HA43-2	AOCU-HA43	12072011	0805	1-2	N	1	SO	3		X		X	X	X	X										1	3
AOCU-HA45-1.5	AOCU-HA45	12072011	0830	0.5-1.5	N	1	SO	3		X		X	X	X	X										1	4
AOCU-HA45-1.5-A	AOCU-HA45	12072011	0830	0.5-1.5	FD	1	SO	3		X		X	X	X	X										1	5
AOCU-HA47-2	AOCU-HA47	12072011	0900	1-2	N	1	SO	3		X		X	X	X	X										1	6
AOCU-HA50-2	AOCU-HA50	12072011	0920	1-2	N	1	SO	3		X		X	X	X	X										1	7
AOCU-HA56-1	AOCU-HA56	12072011	1035	0-1	N	1	SO	3		X		X	X	X	X										1	8
AOCU-HA57-1	AOCU-HA57	12072011	1055	0-1	N	1	SO	3		X		X	X	X	X										1	9
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/12/11	1500	1. Fed Ex		
2. Fed Ex	7/13/11	850	2. [signature]	7/13/11	850
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7949 6169 0026

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7949 6166 1729

7972 9280 0035

4.2°C, 5.2°C, 5.1°C

NATIONVIEW

Nationview/ 4771/211071316/ 7/20/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 071211-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-HA12-2	AOCU-HA12	11072011	1330	1-2	N	1	SO	5	X		X					X									2 1
AOCU-HA35-3	AOCU-HA35	11072011	1430	2-3	N	1	SO	5	X		X					X									2 2
AOCU-EB01		11072011	1545	-	EB	1	WQ	5	X		X														2 10
AOCU-HA43-2	AOCU-HA43	12072011	0805	1-2	N	1	SO	5	X		X					X									2 3
AOCU-HA45-1.5	AOCU-HA45	12072011	0830	0.5-1.5	N	1	SO	5	X		X					X									2 4
AOCU-HA45-1.5-A	AOCU-HA45	12072011	0830	0.5-1.5	FD	1	SO	5	X		X					X									2 5
AOCU-HA47-2	AOCU-HA47	12072011	0900	1-2	N	1	SO	5	X		X					X									2 6
AOCU-HA50-2	AOCU-HA50	12072011	0920	1-2	N	1	SO	5	X		X					X									2 7
AOCU-HA56-1	AOCU-HA56	12072011	1035	0-1	N	1	SO	5	X		X					X									2 8
AOCU-HA57-1	AOCU-HA57	12072011	1055	0-1	N	1	SO	5	X		X					X									2 9
Trip Blank		11072011	1330	-	TB	1	WQ	3	X																2 11

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	7/12/11	1500	Fed Ex		
2.	Fed Ex	7/13/11	850	[signature]	7/13/11	850
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: Federal Express

Analytical Lab: Gulf Coast Analytical Laboratories

Lab Recipient:

Shipped No.:

Airbill Number: 7949 6166 1729

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7949 6169 0026

7972 9280 0033

4.2, 5.2, 5.1

NATIONVIEW

Nation View / 4771 / 211071316 / 7/20/11

Project No: 8090006.02.010

COC Number(1): 07/211-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	Perchlorate (6860)						Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-EB01		11072011	1545	-	EB	1	WQ	6		X		X	X	X	X									3
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				
				-																				

10

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1.	J H Moore	7/12/11	1500	4.2°C	FedEx		
2.	FedEx 7972 9280 0033	7/13/11	850	5.2	[signature]	7/13/11	850
3.	7949 6166 1729			5.1			

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: FedEx Express

Airbill Number: 797292800033

Analytical Lab: GCAL

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7949 6169 0026

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211071316

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Carstens, Jennifer K.

Received Date/Time: 7/13/2011 8:50:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 3

Cooler tracking numbers(s): 7949 6169 0026, 7949 6166 1729, 7972 9280 0033

Cooler temperature(s): 4.2, 5.2, 5.1

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 08/17/2011

GCAL Report 211071412

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project AOC-U RFI Invest / Holloman

CASE NARRATIVE

Client: NationView, LLC **Report:** 211071412

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 461425, the MS/MSD exhibited recovery and RPD failures. The LCS and/or LCSD recoveries are above the upper control limit for Pentachloroethane. This compound was not detected in the associated samples. The LCS/LCSD RPD is above the control limit for Pentachloroethane, tert-Butylbenzene and Acetonitrile. Pentachloroethane exhibited a % drift value greater than a +20 in the CCV. Pentachloroethane was not detected during sample analysis. Acetone, Chloroform, 2-Butanone, o-Xylene, n-Hexane and Benzene were detected at an estimated concentration in the method blank. This is probable laboratory contamination.

In the SW-846 8260B analysis for analytical batch 461062, the LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds. The LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane, Dibromomethane, cis-1,2-Dichloroethene, n-Hexane and Ethyl methacrylate. These compounds were not detected in the associated samples. The LCS/LCSD RPD is above the control limit for Pentachloroethane, tert-Butylbenzene and Acetonitrile. Trichloroethene, Carbon Disulfide, 1,1,2-Trichlorotrifluoroethane, Acrolein, Hexane, Cyclohexane, Bromochloromethane, Carbon Tetrachloride, 1,1-Dichloropropane and Methyl Cyclohexane exhibited % drift values of +22, +22, +22, +46, +39, +29, +24, +21, +23 and +29. These compounds were not detected during sample analysis.

VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8015B GRO analysis, samples 21107141202 (AOCU-HA64-2), 21107141203 (AOCU-HA66-2), 21107141204 (AOCU-HA66--2-MS), 21107141205 (AOCU-HA66--2-MSD), 21107141206 (AOCU-HA68-2), 21107141207 (AOCU-HA69-2), 21107141208 (AOCU-HA69-2-A), 21107141209 (AOCU-HA71-2), 21107141210 (AOCU-HA84-10) and 21107141211 (AOCU-HA91-2) were analyzed as a soil medium; this dilution is reflected in elevated reporting limits however, project detection limit requirements were still met.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 21107141203 (AOCU-HA66-2), 21107141204 (AOCU-HA66--2-MS), 21107141205 (AOCU-HA66--2-MSD), 21107141202 (AOCU-HA64-2), 21107141206 (AOCU-HA68-2), 21107141207 (AOCU-HA69-2), 21107141208 (AOCU-HA69-2-A), 21107141209 (AOCU-HA71-2), 21107141210 (AOCU-HA84-10) and 21107141211 (AOCU-HA91-2) . This is reflected in the elevated reporting limits.

In the SW-846 6010B analysis for prep batch 460866, the MS and/or MSD recoveries are outside the control limits for Manganese, Antimony and Potassium. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference or the element is non-homogeneous in the sample. A post-digestion spike was performed on the QC sample for this batch with recoveries of 105% for Antimony, 99% for Manganese and 105% for Potassium. The MS recovery is not applicable for Sodium because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries are not applicable for Aluminum, Iron and Magnesium because the sample concentration is greater than four times the spike concentration. , Magnesium was detected in the method blank. The concentration was

insignificant as compared to the concentration detected in the associated sample(s). The MS/MSD RPD for Iron is above the control limit. The heterogeneous nature of the QC sample is believed to be responsible for this.

In the SW-846 6010B analysis for prep batch 461468, the MS/MSD recoveries are not applicable for Calcium because the sample concentration is greater than four times the spike concentration.

Barium was detected in the method blank for prep batch 460814; however, Barium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21107141203 (AOCU-HA66-2), 21107141204 (AOCU-HA66--2-MS), 21107141205 (AOCU-HA66--2-MSD) and 21107141210 (AOCU-HA84-10) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211071412

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	AOCU-EB02	Water	07/12/2011 15:15	07/14/2011 08:55
21107141202	AOCU-HA64-2	Solid	07/12/2011 13:00	07/14/2011 08:55
21107141203	AOCU-HA66-2	Solid	07/12/2011 13:30	07/14/2011 08:55
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55
21107141205	AOCU-HA66--2-MSD	Solid	07/12/2011 13:30	07/14/2011 08:55
21107141206	AOCU-HA68-2	Solid	07/13/2011 09:05	07/14/2011 08:55
21107141207	AOCU-HA69-2	Solid	07/13/2011 09:25	07/14/2011 08:55
21107141208	AOCU-HA69-2-A	Solid	07/13/2011 09:25	07/14/2011 08:55
21107141209	AOCU-HA71-2	Solid	07/13/2011 09:55	07/14/2011 08:55
21107141210	AOCU-HA84-10	Solid	07/13/2011 11:05	07/14/2011 08:55
21107141211	AOCU-HA91-2	Solid	07/13/2011 11:45	07/14/2011 08:55
21107141212	TRIP BLANK	Water	07/13/2011 11:05	07/14/2011 08:55
21107141213	TRIP BLANK	Water	07/12/2011 13:00	07/14/2011 08:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-27-4	Bromodichloromethane	3.55J	5	0.071	ug/L
67-66-3	Chloroform	6.92	5	0.062	ug/L
124-48-1	Dibromochloromethane	0.879J	5	0.133	ug/L

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00028	0.00020	0.000081	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.093	0.010	0.003	mg/L-N

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0048B	0.010	0.00011	mg/L
7440-41-7	Beryllium	0.00013B	0.0050	0.00011	mg/L
7440-43-9	Cadmium	0.00024B	0.0050	0.00011	mg/L
7440-48-4	Cobalt	0.00064B	0.010	0.00040	mg/L
7440-50-8	Copper	0.0015B	0.010	0.0014	mg/L
7439-95-4	Magnesium	0.14	0.10	0.014	mg/L
7439-96-5	Manganese	0.0016B	0.015	0.0012	mg/L
7440-02-0	Nickel	0.0011B	0.040	0.00096	mg/L
7440-09-7	Potassium	0.34B	0.50	0.053	mg/L
7440-23-5	Sodium	16.9	1.00	0.051	mg/L
7440-28-0	Thallium	0.0029B	0.020	0.0018	mg/L
7440-62-2	Vanadium	0.0026B	0.020	0.00082	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	0.41	0.10	0.026	mg/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	7.98	0.708	0.037	mg/kg-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.74	6.46	0.821	ug/Kg
67-64-1	Acetone	17.8J	32.3	1.40	ug/Kg
71-43-2	Benzene	3.91J	6.46	0.137	ug/Kg
67-66-3	Chloroform	0.851J	6.46	0.291	ug/Kg
108-88-3	Toluene	3.17J	6.46	0.341	ug/Kg
110-54-3	n-Hexane	1.97J	6.46	0.416	ug/Kg
95-47-6	o-Xylene	1.22J	6.46	0.186	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	95700	84.3	2.59	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	2400	22.5	1.77	mg/kg
7440-36-0	Antimony	0.51B	6.74	0.33	mg/kg
7440-38-2	Arsenic	1.02B	4.50	0.25	mg/kg
7440-39-3	Barium	24.1	1.12	0.031	mg/kg
7440-41-7	Beryllium	0.12B	0.56	0.0078	mg/kg
7440-43-9	Cadmium	0.21B	0.56	0.027	mg/kg
7440-47-3	Chromium	2.44	1.12	0.033	mg/kg
7440-48-4	Cobalt	0.86B	1.12	0.061	mg/kg
7440-50-8	Copper	3.41	1.12	0.092	mg/kg
7439-89-6	Iron	2150	11.2	2.55	mg/kg
7439-92-1	Lead	1.22B	1.69	0.20	mg/kg
7439-95-4	Magnesium	9610	11.2	3.77	mg/kg
7439-96-5	Manganese	57.3	1.69	0.11	mg/kg
7440-02-0	Nickel	2.04B	4.50	0.088	mg/kg
7440-09-7	Potassium	617	56.2	5.11	mg/kg
7440-23-5	Sodium	5820	112	9.86	mg/kg
7440-62-2	Vanadium	7.45	2.25	0.14	mg/kg
7440-66-6	Zinc	7.58	2.25	0.93	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	AOCU-HA66-2	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0072B	0.016	0.0046	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	9.18	6.22	0.790	ug/Kg
67-64-1	Acetone	26.6J	31.1	1.34	ug/Kg
71-43-2	Benzene	4.16J	6.22	0.132	ug/Kg
67-66-3	Chloroform	0.935J	6.22	0.280	ug/Kg
108-88-3	Toluene	2.81J	6.22	0.328	ug/Kg
110-54-3	n-Hexane	2.36J	6.22	0.400	ug/Kg
95-47-6	o-Xylene	1.23J	6.22	0.179	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1970	21.7	1.71	mg/kg
7440-36-0	Antimony	0.59B	6.51	0.32	mg/kg
7440-38-2	Arsenic	0.92B	4.34	0.24	mg/kg
7440-39-3	Barium	17.1	1.08	0.030	mg/kg
7440-41-7	Beryllium	0.14B	0.54	0.0075	mg/kg
7440-43-9	Cadmium	0.20B	0.54	0.026	mg/kg
7440-47-3	Chromium	2.43	1.08	0.031	mg/kg
7440-48-4	Cobalt	0.93B	1.08	0.059	mg/kg
7440-50-8	Copper	3.13	1.08	0.089	mg/kg
7439-89-6	Iron	2100	10.8	2.46	mg/kg
7439-92-1	Lead	1.47B	1.63	0.19	mg/kg
7439-95-4	Magnesium	4750	10.8	3.63	mg/kg
7439-96-5	Manganese	41.4	1.63	0.11	mg/kg
7440-02-0	Nickel	2.18B	4.34	0.085	mg/kg
7440-09-7	Potassium	517	54.2	4.93	mg/kg
7782-49-2	Selenium	0.58B	4.34	0.52	mg/kg
7440-23-5	Sodium	5630	108	9.51	mg/kg
7440-28-0	Thallium	0.51B	2.17	0.27	mg/kg
7440-62-2	Vanadium	5.74	2.17	0.13	mg/kg
7440-66-6	Zinc	7.68	2.17	0.90	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	12.5	3.39	0.176	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	129000	81.3	2.50	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	3700	441	15.1	ug/Kg
106-46-7	1,4-Dichlorobenzene	3540	441	13.9	ug/Kg
121-14-2	2,4-Dinitrotoluene	3930	441	26.8	ug/Kg
95-57-8	2-Chlorophenol	3840	441	15.5	ug/Kg
59-50-7	4-Chloro-3-methylphenol	3730	441	42.1	ug/Kg
100-02-7	4-Nitrophenol	3170	2210	125	ug/Kg
83-32-9	Acenaphthene	3860	441	17.5	ug/Kg
87-86-5	Pentachlorophenol	3460	2210	169	ug/Kg
108-95-2	Phenol	3740	441	26.5	ug/Kg
129-00-0	Pyrene	4500	441	20.5	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	3560	441	20.2	ug/Kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	62.2	6.06	0.261	ug/Kg
71-55-6	1,1,1-Trichloroethane	62.8	6.06	0.233	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	68.0	6.06	0.239	ug/Kg
79-00-5	1,1,2-Trichloroethane	62.2	6.06	0.207	ug/Kg
75-34-3	1,1-Dichloroethane	61.8	6.06	0.213	ug/Kg
75-35-4	1,1-Dichloroethene	59.9	6.06	0.372	ug/Kg
563-58-6	1,1-Dichloropropene	63.2	6.06	0.240	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	52.6	6.06	0.137	ug/Kg
96-18-4	1,2,3-Trichloropropane	87.0	6.06	0.199	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	54.1	6.06	0.176	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	59.2	6.06	0.144	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	68.3	6.06	0.845	ug/Kg
106-93-4	1,2-Dibromoethane	63.2	6.06	0.664	ug/Kg
95-50-1	1,2-Dichlorobenzene	56.5	6.06	0.308	ug/Kg
107-06-2	1,2-Dichloroethane	59.2	6.06	0.221	ug/Kg
78-87-5	1,2-Dichloropropane	64.5	6.06	0.149	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	57.3	6.06	0.138	ug/Kg
541-73-1	1,3-Dichlorobenzene	58.1	6.06	0.171	ug/Kg
142-28-9	1,3-Dichloropropane	63.6	6.06	0.162	ug/Kg
106-46-7	1,4-Dichlorobenzene	55.8	6.06	0.172	ug/Kg
544-10-5	1-Chlorohexane	66.3	6.06	0.178	ug/Kg
594-20-7	2,2-Dichloropropane	62.1	6.06	0.369	ug/Kg
78-93-3	2-Butanone	64.1	6.06	0.770	ug/Kg
95-49-8	2-Chlorotoluene	57.2	6.06	0.210	ug/Kg
591-78-6	2-Hexanone	60.3	6.06	0.857	ug/Kg
106-43-4	4-Chlorotoluene	56.0	6.06	0.133	ug/Kg
99-87-6	4-Isopropyltoluene	58.0	6.06	0.103	ug/Kg
108-10-1	4-Methyl-2-pentanone	69.5	6.06	0.273	ug/Kg
67-64-1	Acetone	55.2	30.3	1.31	ug/Kg
75-05-8	Acetonitrile	324	121	2.02	ug/Kg
107-02-8	Acrolein	291	30.3	2.82	ug/Kg
107-13-1	Acrylonitrile	350	30.3	0.703	ug/Kg
107-05-1	Allyl chloride	63.0	6.06	0.668	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	61.5	6.06	0.129	ug/Kg
108-86-1	Bromobenzene	56.1	6.06	0.178	ug/Kg
74-97-5	Bromochloromethane	58.7	6.06	0.292	ug/Kg
75-27-4	Bromodichloromethane	60.3	6.06	0.164	ug/Kg
75-25-2	Bromoform	69.9	6.06	0.259	ug/Kg
74-83-9	Bromomethane	51.8	6.06	0.773	ug/Kg
75-15-0	Carbon disulfide	58.0	6.06	0.438	ug/Kg
56-23-5	Carbon tetrachloride	63.7	6.06	0.249	ug/Kg
108-90-7	Chlorobenzene	58.4	6.06	0.217	ug/Kg
75-00-3	Chloroethane	31.7	6.06	0.296	ug/Kg
67-66-3	Chloroform	59.8	6.06	0.273	ug/Kg
74-87-3	Chloromethane	60.6	6.06	0.685	ug/Kg
124-48-1	Dibromochloromethane	62.5	6.06	0.232	ug/Kg
74-95-3	Dibromomethane	61.1	6.06	0.235	ug/Kg
75-71-8	Dichlorodifluoromethane	61.1	6.06	0.144	ug/Kg
97-63-2	Ethyl methacrylate	72.2	6.06	0.523	ug/Kg
100-41-4	Ethylbenzene	60.6	6.06	0.265	ug/Kg
87-68-3	Hexachlorobutadiene	57.1	6.06	0.184	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	60.7	6.06	0.113	ug/Kg
126-98-7	Methacrylonitrile	68.0	6.06	0.535	ug/Kg
74-88-4	Methyl iodide	57.7	6.06	1.49	ug/Kg
80-62-6	Methyl methacrylate	74.3	6.06	0.969	ug/Kg
75-09-2	Methylene chloride	48.5	12.1	0.583	ug/Kg
91-20-3	Naphthalene	55.8	6.06	0.212	ug/Kg
76-01-7	Pentachloroethane	665	6.06	0.990	ug/Kg
107-12-0	Propionitrile	375	6.06	3.08	ug/Kg
100-42-5	Styrene	58.8	6.06	0.499	ug/Kg
127-18-4	Tetrachloroethene	66.8	6.06	0.247	ug/Kg
108-88-3	Toluene	62.1	6.06	0.320	ug/Kg
79-01-6	Trichloroethene	63.0	6.06	0.211	ug/Kg
75-69-4	Trichlorofluoromethane	60.2	6.06	0.247	ug/Kg
76-13-1	Trichlorotrifluoroethane	60.4	6.06	0.242	ug/Kg
108-05-4	Vinyl acetate	78.3	6.06	0.268	ug/Kg
75-01-4	Vinyl chloride	62.1	6.06	0.303	ug/Kg
156-59-2	cis-1,2-Dichloroethene	57.3	6.06	0.156	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	60.2	6.06	0.395	ug/Kg
136777-61-2	m,p-Xylene	121	6.06	0.430	ug/Kg
104-51-8	n-Butylbenzene	57.1	6.06	0.172	ug/Kg
110-54-3	n-Hexane	57.3	6.06	0.390	ug/Kg
103-65-1	n-Propylbenzene	57.3	6.06	0.133	ug/Kg
95-47-6	o-Xylene	59.1	6.06	0.175	ug/Kg
135-98-8	sec-Butylbenzene	59.1	6.06	0.131	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	55.8	6.06	0.290	ug/Kg
98-06-6	tert-Butylbenzene	58.6	6.06	0.167	ug/Kg
156-60-5	trans-1,2-Dichloroethene	60.4	6.06	0.387	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	61.4	6.06	0.576	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	163	6.06	0.628	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	77200	18000	2580	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	49.6	3.39	0.176	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	3740	21.7	1.71	mg/kg
7440-36-0	Antimony	12.7	6.51	0.32	mg/kg
7440-38-2	Arsenic	29.8	4.34	0.24	mg/kg
7440-39-3	Barium	41.2	1.08	0.030	mg/kg
7440-41-7	Beryllium	25.0	0.54	0.0075	mg/kg
7440-43-9	Cadmium	25.1	0.54	0.026	mg/kg
7440-47-3	Chromium	28.5	1.08	0.031	mg/kg
7440-48-4	Cobalt	27.6	1.08	0.059	mg/kg
7440-50-8	Copper	30.2	1.08	0.089	mg/kg
7439-89-6	Iron	3140	10.8	2.46	mg/kg
7439-92-1	Lead	27.4	1.63	0.19	mg/kg
7439-95-4	Magnesium	6330	10.8	3.63	mg/kg
7439-96-5	Manganese	79.6	1.63	0.11	mg/kg
7440-02-0	Nickel	28.8	4.34	0.085	mg/kg
7440-09-7	Potassium	1510	54.2	4.93	mg/kg
7782-49-2	Selenium	28.4	4.34	0.52	mg/kg
7440-22-4	Silver	25.4	1.08	0.095	mg/kg
7440-23-5	Sodium	7520	108	9.51	mg/kg
7440-28-0	Thallium	26.3	2.17	0.27	mg/kg
7440-62-2	Vanadium	33.2	2.17	0.13	mg/kg
7440-66-6	Zinc	37.4	2.17	0.90	mg/kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.43	0.016	0.0046	mg/kg

SW-846 8015B Modified

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	28700	6290	817	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	129000	81.3	2.50	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	39800	5420	1750	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	AOCU-HA66--2-MSD	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	40500	5420	1750	ug/Kg

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	78700	18000	2590	ug/Kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	65.6	6.43	0.276	ug/Kg
71-55-6	1,1,1-Trichloroethane	66.3	6.43	0.247	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	77.5	6.43	0.253	ug/Kg
79-00-5	1,1,2-Trichloroethane	68.4	6.43	0.220	ug/Kg
75-34-3	1,1-Dichloroethane	59.8	6.43	0.226	ug/Kg
75-35-4	1,1-Dichloroethene	60.0	6.43	0.395	ug/Kg
563-58-6	1,1-Dichloropropene	66.0	6.43	0.255	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	55.3	6.43	0.145	ug/Kg
96-18-4	1,2,3-Trichloropropane	101	6.43	0.211	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	55.6	6.43	0.186	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	62.5	6.43	0.153	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	81.5	6.43	0.896	ug/Kg
106-93-4	1,2-Dibromoethane	70.5	6.43	0.705	ug/Kg
95-50-1	1,2-Dichlorobenzene	59.9	6.43	0.327	ug/Kg
107-06-2	1,2-Dichloroethane	64.2	6.43	0.234	ug/Kg
78-87-5	1,2-Dichloropropane	67.0	6.43	0.158	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	59.8	6.43	0.147	ug/Kg
541-73-1	1,3-Dichlorobenzene	61.7	6.43	0.181	ug/Kg
142-28-9	1,3-Dichloropropane	69.9	6.43	0.172	ug/Kg
106-46-7	1,4-Dichlorobenzene	59.0	6.43	0.183	ug/Kg
544-10-5	1-Chlorohexane	69.0	6.43	0.189	ug/Kg
594-20-7	2,2-Dichloropropane	61.0	6.43	0.391	ug/Kg
78-93-3	2-Butanone	79.2	6.43	0.817	ug/Kg
110-75-8	2-Chloroethylvinyl ether	55.8	6.43	1.54	ug/Kg
95-49-8	2-Chlorotoluene	60.6	6.43	0.222	ug/Kg
591-78-6	2-Hexanone	73.1	6.43	0.909	ug/Kg
106-43-4	4-Chlorotoluene	60.0	6.43	0.141	ug/Kg
99-87-6	4-Isopropyltoluene	60.3	6.43	0.109	ug/Kg
108-10-1	4-Methyl-2-pentanone	82.8	6.43	0.289	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	72.4	32.1	1.39	ug/Kg
75-05-8	Acetonitrile	403	129	2.15	ug/Kg
107-02-8	Acrolein	375	32.1	3.00	ug/Kg
107-13-1	Acrylonitrile	422	32.1	0.746	ug/Kg
107-05-1	Allyl chloride	63.7	6.43	0.709	ug/Kg
71-43-2	Benzene	66.0	6.43	0.136	ug/Kg
108-86-1	Bromobenzene	59.8	6.43	0.189	ug/Kg
74-97-5	Bromochloromethane	64.4	6.43	0.310	ug/Kg
75-27-4	Bromodichloromethane	63.4	6.43	0.174	ug/Kg
75-25-2	Bromoform	78.6	6.43	0.275	ug/Kg
74-83-9	Bromomethane	59.4	6.43	0.820	ug/Kg
75-15-0	Carbon disulfide	61.5	6.43	0.464	ug/Kg
56-23-5	Carbon tetrachloride	67.0	6.43	0.264	ug/Kg
108-90-7	Chlorobenzene	61.3	6.43	0.230	ug/Kg
75-00-3	Chloroethane	33.3	6.43	0.314	ug/Kg
67-66-3	Chloroform	62.5	6.43	0.289	ug/Kg
74-87-3	Chloromethane	64.9	6.43	0.727	ug/Kg
124-48-1	Dibromochloromethane	69.0	6.43	0.246	ug/Kg
74-95-3	Dibromomethane	67.1	6.43	0.249	ug/Kg
75-71-8	Dichlorodifluoromethane	65.2	6.43	0.153	ug/Kg
97-63-2	Ethyl methacrylate	78.7	6.43	0.554	ug/Kg
100-41-4	Ethylbenzene	62.8	6.43	0.282	ug/Kg
87-68-3	Hexachlorobutadiene	53.1	6.43	0.195	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	62.8	6.43	0.120	ug/Kg
126-98-7	Methacrylonitrile	78.9	6.43	0.567	ug/Kg
74-88-4	Methyl iodide	58.4	6.43	1.58	ug/Kg
80-62-6	Methyl methacrylate	85.9	6.43	1.03	ug/Kg
75-09-2	Methylene chloride	50.8	12.9	0.619	ug/Kg
91-20-3	Naphthalene	64.9	6.43	0.225	ug/Kg
76-01-7	Pentachloroethane	718	6.43	1.05	ug/Kg
107-12-0	Propionitrile	470	6.43	3.27	ug/Kg
100-42-5	Styrene	61.9	6.43	0.530	ug/Kg
127-18-4	Tetrachloroethene	69.4	6.43	0.262	ug/Kg
108-88-3	Toluene	63.6	6.43	0.339	ug/Kg
79-01-6	Trichloroethene	66.7	6.43	0.224	ug/Kg
75-69-4	Trichlorofluoromethane	63.4	6.43	0.262	ug/Kg
76-13-1	Trichlorotrifluoroethane	63.2	6.43	0.257	ug/Kg
108-05-4	Vinyl acetate	92.6	6.43	0.284	ug/Kg
75-01-4	Vinyl chloride	66.8	6.43	0.321	ug/Kg
156-59-2	cis-1,2-Dichloroethene	60.9	6.43	0.166	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	64.4	6.43	0.419	ug/Kg
136777-61-2	m,p-Xylene	126	6.43	0.457	ug/Kg
104-51-8	n-Butylbenzene	57.3	6.43	0.183	ug/Kg
110-54-3	n-Hexane	60.4	6.43	0.414	ug/Kg
103-65-1	n-Propylbenzene	60.0	6.43	0.141	ug/Kg
95-47-6	o-Xylene	62.6	6.43	0.185	ug/Kg
135-98-8	sec-Butylbenzene	60.6	6.43	0.139	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	60.2	6.43	0.307	ug/Kg
98-06-6	tert-Butylbenzene	60.7	6.43	0.177	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	AOCU-HA66--2-MSD	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
156-60-5	trans-1,2-Dichloroethene	62.5	6.43	0.410	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	66.3	6.43	0.611	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	186	6.43	0.666	ug/Kg

SW-846 7471B

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.42	0.016	0.0046	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	49.3	3.39	0.176	mg/kg-N

SW-846 8270C

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	3630	447	15.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	3420	447	14.1	ug/Kg
121-14-2	2,4-Dinitrotoluene	4310	447	27.1	ug/Kg
95-57-8	2-Chlorophenol	3840	447	15.7	ug/Kg
59-50-7	4-Chloro-3-methylphenol	3930	447	42.7	ug/Kg
100-02-7	4-Nitrophenol	3620	2240	126	ug/Kg
83-32-9	Acenaphthene	3820	447	17.8	ug/Kg
87-86-5	Pentachlorophenol	3580	2240	171	ug/Kg
108-95-2	Phenol	3730	447	26.8	ug/Kg
129-00-0	Pyrene	4260	447	20.7	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	3580	447	20.5	ug/Kg

SW-846 8015B Modified

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	35500	7370	958	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	3070	21.7	1.71	mg/kg
7440-36-0	Antimony	12.6	6.51	0.32	mg/kg
7440-38-2	Arsenic	27.8	4.34	0.24	mg/kg
7440-39-3	Barium	38.3	1.08	0.030	mg/kg
7440-41-7	Beryllium	23.6	0.54	0.0075	mg/kg
7440-43-9	Cadmium	23.1	0.54	0.026	mg/kg
7440-47-3	Chromium	26.4	1.08	0.031	mg/kg
7440-48-4	Cobalt	25.8	1.08	0.059	mg/kg
7440-50-8	Copper	28.3	1.08	0.089	mg/kg
7439-89-6	Iron	2490	10.8	2.46	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	24.7	1.63	0.19	mg/kg
7439-95-4	Magnesium	6440	10.8	3.63	mg/kg
7439-96-5	Manganese	73.8	1.63	0.11	mg/kg
7440-02-0	Nickel	27.0	4.34	0.085	mg/kg
7440-09-7	Potassium	1270	54.2	4.93	mg/kg
7782-49-2	Selenium	26.8	4.34	0.52	mg/kg
7440-22-4	Silver	23.9	1.08	0.095	mg/kg
7440-23-5	Sodium	6670	108	9.51	mg/kg
7440-28-0	Thallium	24.8	2.17	0.27	mg/kg
7440-62-2	Vanadium	31.2	2.17	0.13	mg/kg
7440-66-6	Zinc	32.9	2.17	0.90	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	134000	81.3	2.50	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	7.17	5.16	0.655	ug/Kg
67-64-1	Acetone	16.6J	25.8	1.11	ug/Kg
71-43-2	Benzene	2.60J	5.16	0.109	ug/Kg
67-66-3	Chloroform	0.788J	5.16	0.232	ug/Kg
108-88-3	Toluene	2.60J	5.16	0.272	ug/Kg
110-54-3	n-Hexane	1.77J	5.16	0.332	ug/Kg
95-47-6	o-Xylene	1.01J	5.16	0.149	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	96100	77.9	2.39	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	699	20.8	1.64	mg/kg
7440-36-0	Antimony	0.38B	6.23	0.31	mg/kg
7440-38-2	Arsenic	0.75B	4.15	0.23	mg/kg
7440-39-3	Barium	11.3	1.04	0.028	mg/kg
7440-41-7	Beryllium	0.031B	0.52	0.0072	mg/kg
7440-43-9	Cadmium	0.15B	0.52	0.025	mg/kg
7440-47-3	Chromium	0.92B	1.04	0.030	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	AOCU-HA68-2	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-48-4	Cobalt	0.31B	1.04	0.057	mg/kg
7440-50-8	Copper	2.25	1.04	0.085	mg/kg
7439-89-6	Iron	675	10.4	2.35	mg/kg
7439-92-1	Lead	0.29B	1.56	0.19	mg/kg
7439-95-4	Magnesium	3460	10.4	3.48	mg/kg
7439-96-5	Manganese	20.0	1.56	0.10	mg/kg
7440-02-0	Nickel	0.61B	4.15	0.082	mg/kg
7440-09-7	Potassium	228	51.9	4.73	mg/kg
7440-23-5	Sodium	2760	104	9.11	mg/kg
7440-62-2	Vanadium	3.58	2.08	0.13	mg/kg
7440-66-6	Zinc	2.56	2.08	0.86	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	9.73	0.649	0.034	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	AOCU-HA69-2	Solid	07/13/2011 09:25	07/14/2011 08:55

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	12.0	0.662	0.034	mg/kg-N

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	144000	79.5	2.44	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	5.18J	5.73	0.728	ug/Kg
67-64-1	Acetone	9.10J	28.7	1.24	ug/Kg
71-43-2	Benzene	2.09J	5.73	0.121	ug/Kg
67-66-3	Chloroform	0.839J	5.73	0.258	ug/Kg
108-88-3	Toluene	1.79J	5.73	0.303	ug/Kg
110-54-3	n-Hexane	1.46J	5.73	0.369	ug/Kg
95-47-6	o-Xylene	1.03J	5.73	0.165	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	2290	21.2	1.67	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-38-2	Arsenic	1.40B	4.24	0.23	mg/kg
7440-39-3	Barium	20.6	1.06	0.029	mg/kg
7440-41-7	Beryllium	0.11B	0.53	0.0073	mg/kg
7440-43-9	Cadmium	0.24B	0.53	0.026	mg/kg
7440-47-3	Chromium	2.51	1.06	0.031	mg/kg
7440-48-4	Cobalt	0.89B	1.06	0.058	mg/kg
7440-50-8	Copper	4.03	1.06	0.087	mg/kg
7439-89-6	Iron	2220	10.6	2.40	mg/kg
7439-92-1	Lead	1.65	1.59	0.19	mg/kg
7439-95-4	Magnesium	11300	10.6	3.55	mg/kg
7439-96-5	Manganese	59.7	1.59	0.10	mg/kg
7440-02-0	Nickel	2.08B	4.24	0.083	mg/kg
7440-09-7	Potassium	663	53.0	4.82	mg/kg
7440-23-5	Sodium	11700	106	9.30	mg/kg
7440-62-2	Vanadium	7.16	2.12	0.13	mg/kg
7440-66-6	Zinc	7.84	2.12	0.88	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1860	23.4	1.85	mg/kg
7440-38-2	Arsenic	0.84B	4.68	0.26	mg/kg
7440-39-3	Barium	19.8	1.17	0.032	mg/kg
7440-41-7	Beryllium	0.11B	0.59	0.0081	mg/kg
7440-43-9	Cadmium	0.24B	0.59	0.029	mg/kg
7440-47-3	Chromium	2.02	1.17	0.034	mg/kg
7440-48-4	Cobalt	0.69B	1.17	0.064	mg/kg
7440-50-8	Copper	2.94	1.17	0.096	mg/kg
7439-89-6	Iron	1680	11.7	2.65	mg/kg
7439-92-1	Lead	0.54B	1.76	0.21	mg/kg
7439-95-4	Magnesium	6230	11.7	3.92	mg/kg
7439-96-5	Manganese	42.6	1.76	0.11	mg/kg
7440-02-0	Nickel	1.56B	4.68	0.092	mg/kg
7440-09-7	Potassium	517	58.5	5.33	mg/kg
7440-23-5	Sodium	3770	117	10.3	mg/kg
7440-62-2	Vanadium	6.04	2.34	0.14	mg/kg
7440-66-6	Zinc	6.10	2.34	0.97	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	155000	87.1	2.67	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	AOCU-HA69-2-A	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	5.18J	5.95	0.756	ug/Kg
67-64-1	Acetone	10.9J	29.7	1.29	ug/Kg
71-43-2	Benzene	2.39J	5.95	0.126	ug/Kg
67-66-3	Chloroform	0.703J	5.95	0.268	ug/Kg
108-88-3	Toluene	2.27J	5.95	0.314	ug/Kg
110-54-3	n-Hexane	1.81J	5.95	0.383	ug/Kg
95-47-6	o-Xylene	1.09J	5.95	0.171	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	12.9	0.732	0.038	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	AOCU-HA71-2	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	129000	84.3	2.59	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	1410	22.5	1.77	mg/kg
7440-39-3	Barium	25.3	1.12	0.031	mg/kg
7440-41-7	Beryllium	0.074B	0.56	0.0078	mg/kg
7440-43-9	Cadmium	0.27B	0.56	0.027	mg/kg
7440-47-3	Chromium	1.63	1.12	0.033	mg/kg
7440-48-4	Cobalt	0.61B	1.12	0.061	mg/kg
7440-50-8	Copper	1.84	1.12	0.092	mg/kg
7439-89-6	Iron	1350	11.2	2.55	mg/kg
7439-92-1	Lead	0.34B	1.69	0.20	mg/kg
7439-95-4	Magnesium	3660	11.2	3.77	mg/kg
7439-96-5	Manganese	24.5	1.69	0.11	mg/kg
7440-02-0	Nickel	1.21B	4.50	0.088	mg/kg
7440-09-7	Potassium	383	56.2	5.12	mg/kg
7440-23-5	Sodium	2540	112	9.87	mg/kg
7440-62-2	Vanadium	4.48	2.25	0.14	mg/kg
7440-66-6	Zinc	4.68	2.25	0.93	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	0.313J	5.46	0.130	ug/Kg
78-93-3	2-Butanone	5.31J	5.46	0.693	ug/Kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
67-64-1	Acetone	8.28J	27.3	1.18	ug/Kg
71-43-2	Benzene	6.20	5.46	0.116	ug/Kg
67-66-3	Chloroform	0.838J	5.46	0.246	ug/Kg
108-88-3	Toluene	6.70	5.46	0.288	ug/Kg
136777-61-2	m,p-Xylene	1.10J	5.46	0.387	ug/Kg
110-54-3	n-Hexane	3.04J	5.46	0.351	ug/Kg
95-47-6	o-Xylene	1.48J	5.46	0.157	ug/Kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	9.33	0.703	0.037	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	7410	20.7	1.63	mg/kg
7440-36-0	Antimony	0.31B	6.21	0.31	mg/kg
7440-38-2	Arsenic	2.31B	4.14	0.23	mg/kg
7440-39-3	Barium	66.3	1.03	0.028	mg/kg
7440-41-7	Beryllium	0.66	0.52	0.0072	mg/kg
7440-43-9	Cadmium	0.38B	0.52	0.025	mg/kg
7440-47-3	Chromium	9.74	1.03	0.030	mg/kg
7440-48-4	Cobalt	4.30	1.03	0.056	mg/kg
7440-50-8	Copper	7.67	1.03	0.085	mg/kg
7439-89-6	Iron	9590	10.3	2.34	mg/kg
7439-92-1	Lead	6.54	1.55	0.18	mg/kg
7439-95-4	Magnesium	6180	10.3	3.47	mg/kg
7439-96-5	Manganese	233	1.55	0.10	mg/kg
7440-02-0	Nickel	10.5	4.14	0.081	mg/kg
7440-09-7	Potassium	1830	51.7	4.71	mg/kg
7782-49-2	Selenium	0.51B	4.14	0.50	mg/kg
7440-23-5	Sodium	4490	103	9.08	mg/kg
7440-28-0	Thallium	0.37B	2.07	0.26	mg/kg
7440-62-2	Vanadium	20.4	2.07	0.13	mg/kg
7440-66-6	Zinc	31.0	2.07	0.86	mg/kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	119000	78.2	2.40	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	24.9	3.26	0.170	mg/kg-N

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
95-63-6	1,2,4-Trimethylbenzene	0.750J	5.08	0.121	ug/Kg
78-93-3	2-Butanone	4.90J	5.08	0.645	ug/Kg
67-64-1	Acetone	4.47J	25.4	1.10	ug/Kg
71-43-2	Benzene	6.29	5.08	0.108	ug/Kg
67-66-3	Chloroform	0.679J	5.08	0.229	ug/Kg
108-88-3	Toluene	6.61	5.08	0.268	ug/Kg
136777-61-2	m,p-Xylene	1.80J	5.08	0.361	ug/Kg
110-54-3	n-Hexane	3.42J	5.08	0.327	ug/Kg
95-47-6	o-Xylene	1.56J	5.08	0.146	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	118000	75.5	2.32	mg/kg

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
78-93-3	2-Butanone	6.29	4.92	0.625	ug/Kg
67-64-1	Acetone	16.9J	24.6	1.06	ug/Kg
71-43-2	Benzene	2.59J	4.92	0.104	ug/Kg
67-66-3	Chloroform	0.772J	4.92	0.221	ug/Kg
108-88-3	Toluene	2.44J	4.92	0.260	ug/Kg
110-54-3	n-Hexane	1.46J	4.92	0.317	ug/Kg
95-47-6	o-Xylene	0.953J	4.92	0.142	ug/Kg

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	3330	20.3	1.60	mg/kg
7440-36-0	Antimony	0.76B	6.09	0.30	mg/kg
7440-38-2	Arsenic	0.99B	4.06	0.22	mg/kg
7440-39-3	Barium	38.0	1.02	0.028	mg/kg
7440-41-7	Beryllium	0.17B	0.51	0.0070	mg/kg
7440-43-9	Cadmium	0.21B	0.51	0.025	mg/kg
7440-47-3	Chromium	3.82	1.02	0.029	mg/kg
7440-48-4	Cobalt	1.55	1.02	0.055	mg/kg
7440-50-8	Copper	3.29	1.02	0.083	mg/kg

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-89-6	Iron	3500	10.2	2.30	mg/kg
7439-92-1	Lead	1.97	1.52	0.18	mg/kg
7439-95-4	Magnesium	5060	10.2	3.40	mg/kg
7439-96-5	Manganese	80.1	1.52	0.099	mg/kg
7440-02-0	Nickel	3.46B	4.06	0.080	mg/kg
7440-09-7	Potassium	968	50.8	4.62	mg/kg
7440-23-5	Sodium	7620	102	8.91	mg/kg
7440-62-2	Vanadium	9.38	2.03	0.13	mg/kg
7440-66-6	Zinc	10.7	2.03	0.84	mg/kg

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	1.63	0.634	0.033	mg/kg-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:34	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	**Bromodichloromethane**	**3.55J**	**5**	**0.071**	**ug/L**
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:34	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	**Chloroform**	**6.92**	**5**	**0.062**	**ug/L**
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	**Dibromochloromethane**	**0.879J**	**5**	**0.133**	**ug/L**
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.9	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	54.5	ug/L	109	87 - 116
2037-26-5	Toluene d8	50	44.8	ug/L	90	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:34	SLR	461581

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 08:45	461012	3510C	1	07/19/2011 16:49	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 08:45	461012	3510C	1	07/19/2011 16:49	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	41.5	ug/L	83	52 - 120
321-60-8	2-Fluorobiphenyl	50	41.6	ug/L	83	16 - 128
1718-51-0	Terphenyl-d14	50	45.9	ug/L	92	43 - 138
4165-62-2	Phenol-d5	100	32	ug/L	32	10 - 120
367-12-4	2-Fluorophenol	100	48.2	ug/L	48	10 - 120
118-79-6	2,4,6-Tribromophenol	100	75	ug/L	75	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460679	3510C	1	07/15/2011 14:53	DLB	460990

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.6U	126	44.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50.5	42.4	ug/L	84	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:17	JAR	461421

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	30.4	ug/L	101	49 - 136

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460817	3510C	1	07/15/2011 14:53	DLB	460992

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	46.2U	126	46.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50.5	42.7	ug/L	85	57 - 115

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460813	SW-846 7470A Dissolved	1	07/17/2011 16:19	BNB	460971

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00028**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/19/2011 16:14	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.044U	0.20	0.044	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0025U	0.010	0.0025	mg/L
7440-39-3	**Barium**	**0.0048B**	**0.010**	**0.00011**	**mg/L**
7440-41-7	**Beryllium**	**0.00013B**	**0.0050**	**0.00011**	**mg/L**
7440-43-9	**Cadmium**	**0.00024B**	**0.0050**	**0.00011**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.00064B**	**0.010**	**0.00040**	**mg/L**
7440-50-8	**Copper**	**0.0015B**	**0.010**	**0.0014**	**mg/L**
7439-89-6	Iron	0.038U	0.10	0.038	mg/L
7439-92-1	Lead	0.0014U	0.015	0.0014	mg/L
7439-95-4	**Magnesium**	**0.14**	**0.10**	**0.014**	**mg/L**
7439-96-5	**Manganese**	**0.0016B**	**0.015**	**0.0012**	**mg/L**
7440-02-0	**Nickel**	**0.0011B**	**0.040**	**0.00096**	**mg/L**
7440-09-7	**Potassium**	**0.34B**	**0.50**	**0.053**	**mg/L**
7782-49-2	Selenium	0.0043U	0.040	0.0043	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141201	**AOCU-EB02**	Water	07/12/2011 15:15	07/14/2011 08:55

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/19/2011 16:14	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.00060U	0.010	0.00060	mg/L
7440-23-5	**Sodium**	**16.9**	**1.00**	**0.051**	**mg/L**
7440-28-0	**Thallium**	**0.0029B**	**0.020**	**0.0018**	**mg/L**
7440-62-2	**Vanadium**	**0.0026B**	**0.020**	**0.00082**	**mg/L**
7440-66-6	Zinc	0.0027U	0.020	0.0027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 13:30	460814	SW-846 3005 Dissolved	1	07/20/2011 11:47	CLB	461437

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**0.41**	**0.10**	**0.026**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 11:57	AEL	460875

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.093**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:08	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.278U	6.46	0.278	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.248U	6.46	0.248	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.255U	6.46	0.255	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.221U	6.46	0.221	ug/Kg
75-34-3	1,1-Dichloroethane	0.227U	6.46	0.227	ug/Kg
75-35-4	1,1-Dichloroethene	0.397U	6.46	0.397	ug/Kg
563-58-6	1,1-Dichloropropene	0.256U	6.46	0.256	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.146U	6.46	0.146	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.212U	6.46	0.212	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.187U	6.46	0.187	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.154U	6.46	0.154	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.901U	6.46	0.901	ug/Kg
106-93-4	1,2-Dibromoethane	0.708U	6.46	0.708	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.328U	6.46	0.328	ug/Kg
107-06-2	1,2-Dichloroethane	0.235U	6.46	0.235	ug/Kg
78-87-5	1,2-Dichloropropane	0.159U	6.46	0.159	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.147U	6.46	0.147	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.182U	6.46	0.182	ug/Kg
142-28-9	1,3-Dichloropropane	0.173U	6.46	0.173	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.184U	6.46	0.184	ug/Kg
544-10-5	1-Chlorohexane	0.190U	6.46	0.190	ug/Kg
594-20-7	2,2-Dichloropropane	0.393U	6.46	0.393	ug/Kg
78-93-3	**2-Butanone**	**6.74**	**6.46**	**0.821**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.55U	6.46	1.55	ug/Kg
95-49-8	2-Chlorotoluene	0.224U	6.46	0.224	ug/Kg
591-78-6	2-Hexanone	0.914U	6.46	0.914	ug/Kg
106-43-4	4-Chlorotoluene	0.142U	6.46	0.142	ug/Kg
99-87-6	4-Isopropyltoluene	0.110U	6.46	0.110	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.291U	6.46	0.291	ug/Kg
67-64-1	**Acetone**	**17.8J**	**32.3**	**1.40**	**ug/Kg**
75-05-8	Acetonitrile	2.16U	129	2.16	ug/Kg
107-02-8	Acrolein	3.01U	32.3	3.01	ug/Kg
107-13-1	Acrylonitrile	0.750U	32.3	0.750	ug/Kg
107-05-1	Allyl chloride	0.712U	6.46	0.712	ug/Kg
71-43-2	**Benzene**	**3.91J**	**6.46**	**0.137**	**ug/Kg**
108-86-1	Bromobenzene	0.190U	6.46	0.190	ug/Kg
74-97-5	Bromochloromethane	0.311U	6.46	0.311	ug/Kg
75-27-4	Bromodichloromethane	0.174U	6.46	0.174	ug/Kg
75-25-2	Bromoform	0.277U	6.46	0.277	ug/Kg
74-83-9	Bromomethane	0.824U	6.46	0.824	ug/Kg
75-15-0	Carbon disulfide	0.467U	6.46	0.467	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:08	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.265U	6.46	0.265	ug/Kg
108-90-7	Chlorobenzene	0.231U	6.46	0.231	ug/Kg
75-00-3	Chloroethane	0.315U	6.46	0.315	ug/Kg
67-66-3	**Chloroform**	**0.851J**	**6.46**	**0.291**	**ug/Kg**
74-87-3	Chloromethane	0.730U	6.46	0.730	ug/Kg
124-48-1	Dibromochloromethane	0.247U	6.46	0.247	ug/Kg
74-95-3	Dibromomethane	0.251U	6.46	0.251	ug/Kg
75-71-8	Dichlorodifluoromethane	0.154U	6.46	0.154	ug/Kg
97-63-2	Ethyl methacrylate	0.557U	6.46	0.557	ug/Kg
100-41-4	Ethylbenzene	0.283U	6.46	0.283	ug/Kg
87-68-3	Hexachlorobutadiene	0.196U	6.46	0.196	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.120U	6.46	0.120	ug/Kg
126-98-7	Methacrylonitrile	0.570U	6.46	0.570	ug/Kg
74-88-4	Methyl iodide	1.59U	6.46	1.59	ug/Kg
80-62-6	Methyl methacrylate	1.03U	6.46	1.03	ug/Kg
75-09-2	Methylene chloride	0.622U	12.9	0.622	ug/Kg
91-20-3	Naphthalene	0.226U	6.46	0.226	ug/Kg
76-01-7	Pentachloroethane	1.06U	6.46	1.06	ug/Kg
107-12-0	Propionitrile	3.28U	6.46	3.28	ug/Kg
100-42-5	Styrene	0.532U	6.46	0.532	ug/Kg
127-18-4	Tetrachloroethene	0.264U	6.46	0.264	ug/Kg
108-88-3	**Toluene**	**3.17J**	**6.46**	**0.341**	**ug/Kg**
79-01-6	Trichloroethene	0.225U	6.46	0.225	ug/Kg
75-69-4	Trichlorofluoromethane	0.264U	6.46	0.264	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.258U	6.46	0.258	ug/Kg
108-05-4	Vinyl acetate	0.286U	6.46	0.286	ug/Kg
75-01-4	Vinyl chloride	0.323U	6.46	0.323	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.167U	6.46	0.167	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.421U	6.46	0.421	ug/Kg
136777-61-2	m,p-Xylene	0.459U	6.46	0.459	ug/Kg
104-51-8	n-Butylbenzene	0.184U	6.46	0.184	ug/Kg
110-54-3	**n-Hexane**	**1.97J**	**6.46**	**0.416**	**ug/Kg**
103-65-1	n-Propylbenzene	0.142U	6.46	0.142	ug/Kg
95-47-6	**o-Xylene**	**1.22J**	**6.46**	**0.186**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.140U	6.46	0.140	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.309U	6.46	0.309	ug/Kg
98-06-6	tert-Butylbenzene	0.178U	6.46	0.178	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.412U	6.46	0.412	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.614U	6.46	0.614	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.669U	6.46	0.669	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	45.6	45.3	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	45.6	46.7	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	45.6	45.8	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	45.6	48.2	ug/Kg	106	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:08	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:16	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.0U	467	16.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.7U	467	15.7	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.7U	467	17.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.7U	467	14.7	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.6U	467	31.6	ug/Kg
88-06-2	2,4,6-Trichlorophenol	111U	467	111	ug/Kg
120-83-2	2,4-Dichlorophenol	50.1U	467	50.1	ug/Kg
105-67-9	2,4-Dimethylphenol	330U	467	330	ug/Kg
51-28-5	2,4-Dinitrophenol	215U	467	215	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.3U	467	28.3	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.7U	467	37.7	ug/Kg
91-58-7	2-Chloronaphthalene	15.0U	467	15.0	ug/Kg
95-57-8	2-Chlorophenol	16.4U	467	16.4	ug/Kg
91-57-6	2-Methylnaphthalene	12.7U	467	12.7	ug/Kg
88-74-4	2-Nitroaniline	34.0U	2340	34.0	ug/Kg
88-75-5	2-Nitrophenol	34.7U	467	34.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	433U	935	433	ug/Kg
99-09-2	3-Nitroaniline	31.2U	2340	31.2	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	212U	2340	212	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	26.2U	467	26.2	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.6U	467	44.6	ug/Kg
106-47-8	4-Chloroaniline	31.4U	467	31.4	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.5U	467	26.5	ug/Kg
100-01-6	4-Nitroaniline	231U	2340	231	ug/Kg
100-02-7	4-Nitrophenol	132U	2340	132	ug/Kg
83-32-9	Acenaphthene	18.6U	467	18.6	ug/Kg
208-96-8	Acenaphthylene	18.6U	467	18.6	ug/Kg
120-12-7	Anthracene	16.1U	467	16.1	ug/Kg
92-87-5	Benzidine	2340U	2340	2340	ug/Kg
56-55-3	Benzo(a)anthracene	36.5U	467	36.5	ug/Kg
50-32-8	Benzo(a)pyrene	17.4U	467	17.4	ug/Kg
205-99-2	Benzo(b)fluoranthene	43.1U	467	43.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.9U	467	14.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.0U	467	19.0	ug/Kg
65-85-0	Benzoic acid	96.3U	2340	96.3	ug/Kg
100-51-6	Benzyl alcohol	63.9U	467	63.9	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.5U	467	36.5	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.4U	467	34.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	29.2U	467	29.2	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.8U	467	27.8	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:16	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.40U	467	8.40	ug/Kg
218-01-9	Chrysene	20.5U	467	20.5	ug/Kg
84-74-2	Di-n-butyl phthalate	18.6U	467	18.6	ug/Kg
117-84-0	Di-n-octyl phthalate	6.29U	467	6.29	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.3U	467	16.3	ug/Kg
132-64-9	Dibenzofuran	15.2U	467	15.2	ug/Kg
84-66-2	Diethyl phthalate	28.8U	467	28.8	ug/Kg
131-11-3	Dimethyl phthalate	20.0U	467	20.0	ug/Kg
206-44-0	Fluoranthene	9.23U	467	9.23	ug/Kg
86-73-7	Fluorene	18.3U	467	18.3	ug/Kg
118-74-1	Hexachlorobenzene	27.1U	467	27.1	ug/Kg
87-68-3	Hexachlorobutadiene	28.3U	467	28.3	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170U	467	170	ug/Kg
67-72-1	Hexachloroethane	22.5U	467	22.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.8U	467	43.8	ug/Kg
78-59-1	Isophorone	16.4U	467	16.4	ug/Kg
91-20-3	Naphthalene	18.7U	467	18.7	ug/Kg
98-95-3	Nitrobenzene	26.1U	467	26.1	ug/Kg
87-86-5	Pentachlorophenol	178U	2340	178	ug/Kg
85-01-8	Phenanthrene	15.0U	467	15.0	ug/Kg
108-95-2	Phenol	28.0U	467	28.0	ug/Kg
129-00-0	Pyrene	21.7U	467	21.7	ug/Kg
1319-77-3MP	m,p-Cresol	66.0U	467	66.0	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.4U	467	21.4	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.9U	467	14.9	ug/Kg
95-48-7	o-Cresol	16.6U	467	16.6	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1290	ug/Kg	77	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1350	ug/Kg	81	46 - 122
1718-51-0	Terphenyl-d14	1670	1550	ug/Kg	93	45 - 135
4165-62-2	Phenol-d5	3330	2870	ug/Kg	86	44 - 124
367-12-4	2-Fluorophenol	3330	2830	ug/Kg	85	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2880	ug/Kg	86	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 11:00	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1800U	5570	1800	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1450	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 02:01	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	1030U	7920	1030	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1680	1670	ug/Kg	100	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 11:00	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2660U	18500	2660	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1390	ug/Kg	85	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:01	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0048U	0.017	0.0048	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 19:58	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**2400**	**22.5**	**1.77**	**mg/kg**
7440-36-0	**Antimony**	**0.51B**	**6.74**	**0.33**	**mg/kg**
7440-38-2	**Arsenic**	**1.02B**	**4.50**	**0.25**	**mg/kg**
7440-39-3	**Barium**	**24.1**	**1.12**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.12B**	**0.56**	**0.0078**	**mg/kg**
7440-43-9	**Cadmium**	**0.21B**	**0.56**	**0.027**	**mg/kg**
7440-47-3	**Chromium**	**2.44**	**1.12**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**0.86B**	**1.12**	**0.061**	**mg/kg**
7440-50-8	**Copper**	**3.41**	**1.12**	**0.092**	**mg/kg**
7439-89-6	**Iron**	**2150**	**11.2**	**2.55**	**mg/kg**
7439-92-1	**Lead**	**1.22B**	**1.69**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**9610**	**11.2**	**3.77**	**mg/kg**
7439-96-5	**Manganese**	**57.3**	**1.69**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**2.04B**	**4.50**	**0.088**	**mg/kg**
7440-09-7	**Potassium**	**617**	**56.2**	**5.11**	**mg/kg**
7782-49-2	Selenium	0.54U	4.50	0.54	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141202	**AOCU-HA64-2**	Solid	07/12/2011 13:00	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 19:58	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.098U	1.12	0.098	mg/kg
7440-23-5	**Sodium**	**5820**	**112**	**9.86**	**mg/kg**
7440-28-0	Thallium	0.28U	2.25	0.28	mg/kg
7440-62-2	**Vanadium**	**7.45**	**2.25**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**7.58**	**2.25**	**0.93**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:21	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**95700**	**84.3**	**2.59**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:19	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**7.98**	**0.708**	**0.037**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**29.4**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 13:47	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.267U	6.22	0.267	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.239U	6.22	0.239	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.245U	6.22	0.245	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.213U	6.22	0.213	ug/Kg
75-34-3	1,1-Dichloroethane	0.219U	6.22	0.219	ug/Kg
75-35-4	1,1-Dichloroethene	0.382U	6.22	0.382	ug/Kg
563-58-6	1,1-Dichloropropene	0.246U	6.22	0.246	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.141U	6.22	0.141	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.204U	6.22	0.204	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.180U	6.22	0.180	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.148U	6.22	0.148	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.867U	6.22	0.867	ug/Kg
106-93-4	1,2-Dibromoethane	0.681U	6.22	0.681	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.316U	6.22	0.316	ug/Kg
107-06-2	1,2-Dichloroethane	0.226U	6.22	0.226	ug/Kg
78-87-5	1,2-Dichloropropane	0.153U	6.22	0.153	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.142U	6.22	0.142	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.175U	6.22	0.175	ug/Kg
142-28-9	1,3-Dichloropropane	0.167U	6.22	0.167	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.177U	6.22	0.177	ug/Kg
544-10-5	1-Chlorohexane	0.183U	6.22	0.183	ug/Kg
594-20-7	2,2-Dichloropropane	0.378U	6.22	0.378	ug/Kg
78-93-3	**2-Butanone**	**9.18**	**6.22**	**0.790**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.49U	6.22	1.49	ug/Kg
95-49-8	2-Chlorotoluene	0.215U	6.22	0.215	ug/Kg
591-78-6	2-Hexanone	0.879U	6.22	0.879	ug/Kg
106-43-4	4-Chlorotoluene	0.137U	6.22	0.137	ug/Kg
99-87-6	4-Isopropyltoluene	0.106U	6.22	0.106	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.280U	6.22	0.280	ug/Kg
67-64-1	**Acetone**	**26.6J**	**31.1**	**1.34**	**ug/Kg**
75-05-8	Acetonitrile	2.08U	124	2.08	ug/Kg
107-02-8	Acrolein	2.90U	31.1	2.90	ug/Kg
107-13-1	Acrylonitrile	0.721U	31.1	0.721	ug/Kg
107-05-1	Allyl chloride	0.685U	6.22	0.685	ug/Kg
71-43-2	**Benzene**	**4.16J**	**6.22**	**0.132**	**ug/Kg**
108-86-1	Bromobenzene	0.183U	6.22	0.183	ug/Kg
74-97-5	Bromochloromethane	0.300U	6.22	0.300	ug/Kg
75-27-4	Bromodichloromethane	0.168U	6.22	0.168	ug/Kg
75-25-2	Bromoform	0.266U	6.22	0.266	ug/Kg
74-83-9	Bromomethane	0.793U	6.22	0.793	ug/Kg
75-15-0	Carbon disulfide	0.449U	6.22	0.449	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 13:47	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.255U	6.22	0.255	ug/Kg
108-90-7	Chlorobenzene	0.223U	6.22	0.223	ug/Kg
75-00-3	Chloroethane	0.303U	6.22	0.303	ug/Kg
67-66-3	**Chloroform**	**0.935J**	**6.22**	**0.280**	**ug/Kg**
74-87-3	Chloromethane	0.703U	6.22	0.703	ug/Kg
124-48-1	Dibromochloromethane	0.237U	6.22	0.237	ug/Kg
74-95-3	Dibromomethane	0.241U	6.22	0.241	ug/Kg
75-71-8	Dichlorodifluoromethane	0.148U	6.22	0.148	ug/Kg
97-63-2	Ethyl methacrylate	0.536U	6.22	0.536	ug/Kg
100-41-4	Ethylbenzene	0.272U	6.22	0.272	ug/Kg
87-68-3	Hexachlorobutadiene	0.189U	6.22	0.189	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.116U	6.22	0.116	ug/Kg
126-98-7	Methacrylonitrile	0.548U	6.22	0.548	ug/Kg
74-88-4	Methyl iodide	1.53U	6.22	1.53	ug/Kg
80-62-6	Methyl methacrylate	0.994U	6.22	0.994	ug/Kg
75-09-2	Methylene chloride	0.598U	12.4	0.598	ug/Kg
91-20-3	Naphthalene	0.218U	6.22	0.218	ug/Kg
76-01-7	Pentachloroethane	1.02U	6.22	1.02	ug/Kg
107-12-0	Propionitrile	3.16U	6.22	3.16	ug/Kg
100-42-5	Styrene	0.512U	6.22	0.512	ug/Kg
127-18-4	Tetrachloroethene	0.254U	6.22	0.254	ug/Kg
108-88-3	**Toluene**	**2.81J**	**6.22**	**0.328**	**ug/Kg**
79-01-6	Trichloroethene	0.216U	6.22	0.216	ug/Kg
75-69-4	Trichlorofluoromethane	0.254U	6.22	0.254	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.249U	6.22	0.249	ug/Kg
108-05-4	Vinyl acetate	0.275U	6.22	0.275	ug/Kg
75-01-4	Vinyl chloride	0.311U	6.22	0.311	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.160U	6.22	0.160	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.405U	6.22	0.405	ug/Kg
136777-61-2	m,p-Xylene	0.441U	6.22	0.441	ug/Kg
104-51-8	n-Butylbenzene	0.177U	6.22	0.177	ug/Kg
110-54-3	**n-Hexane**	**2.36J**	**6.22**	**0.400**	**ug/Kg**
103-65-1	n-Propylbenzene	0.137U	6.22	0.137	ug/Kg
95-47-6	**o-Xylene**	**1.23J**	**6.22**	**0.179**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.134U	6.22	0.134	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.297U	6.22	0.297	ug/Kg
98-06-6	tert-Butylbenzene	0.172U	6.22	0.172	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.397U	6.22	0.397	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.591U	6.22	0.591	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.644U	6.22	0.644	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	45.9	46.1	ug/Kg	100	59 - 148
1868-53-7	Dibromofluoromethane	45.9	46.9	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	45.9	45.3	ug/Kg	99	71 - 130
17060-07-0	1,2-Dichloroethane-d4	45.9	51	ug/Kg	111	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 13:47	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:31	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.3U	447	15.3	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.0U	447	15.0	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.9U	447	16.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.1U	447	14.1	ug/Kg
95-95-4	2,4,5-Trichlorophenol	30.2U	447	30.2	ug/Kg
88-06-2	2,4,6-Trichlorophenol	107U	447	107	ug/Kg
120-83-2	2,4-Dichlorophenol	48.0U	447	48.0	ug/Kg
105-67-9	2,4-Dimethylphenol	316U	447	316	ug/Kg
51-28-5	2,4-Dinitrophenol	206U	447	206	ug/Kg
121-14-2	2,4-Dinitrotoluene	27.1U	447	27.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.1U	447	36.1	ug/Kg
91-58-7	2-Chloronaphthalene	14.4U	447	14.4	ug/Kg
95-57-8	2-Chlorophenol	15.7U	447	15.7	ug/Kg
91-57-6	2-Methylnaphthalene	12.1U	447	12.1	ug/Kg
88-74-4	2-Nitroaniline	32.5U	2240	32.5	ug/Kg
88-75-5	2-Nitrophenol	33.2U	447	33.2	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	415U	895	415	ug/Kg
99-09-2	3-Nitroaniline	29.8U	2240	29.8	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	203U	2240	203	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.1U	447	25.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	42.7U	447	42.7	ug/Kg
106-47-8	4-Chloroaniline	30.1U	447	30.1	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.3U	447	25.3	ug/Kg
100-01-6	4-Nitroaniline	221U	2240	221	ug/Kg
100-02-7	4-Nitrophenol	126U	2240	126	ug/Kg
83-32-9	Acenaphthene	17.8U	447	17.8	ug/Kg
208-96-8	Acenaphthylene	17.8U	447	17.8	ug/Kg
120-12-7	Anthracene	15.5U	447	15.5	ug/Kg
92-87-5	Benzidine	2240U	2240	2240	ug/Kg
56-55-3	Benzo(a)anthracene	35.0U	447	35.0	ug/Kg
50-32-8	Benzo(a)pyrene	16.7U	447	16.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.2U	447	41.2	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.2U	447	14.2	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.2U	447	18.2	ug/Kg
65-85-0	Benzoic acid	92.2U	2240	92.2	ug/Kg
100-51-6	Benzyl alcohol	61.1U	447	61.1	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.0U	447	35.0	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	32.9U	447	32.9	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	27.9U	447	27.9	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.6U	447	26.6	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:31	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.04U	447	8.04	ug/Kg
218-01-9	Chrysene	19.7U	447	19.7	ug/Kg
84-74-2	Di-n-butyl phthalate	17.8U	447	17.8	ug/Kg
117-84-0	Di-n-octyl phthalate	6.02U	447	6.02	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.6U	447	15.6	ug/Kg
132-64-9	Dibenzofuran	14.5U	447	14.5	ug/Kg
84-66-2	Diethyl phthalate	27.5U	447	27.5	ug/Kg
131-11-3	Dimethyl phthalate	19.1U	447	19.1	ug/Kg
206-44-0	Fluoranthene	8.84U	447	8.84	ug/Kg
86-73-7	Fluorene	17.5U	447	17.5	ug/Kg
118-74-1	Hexachlorobenzene	25.9U	447	25.9	ug/Kg
87-68-3	Hexachlorobutadiene	27.1U	447	27.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	163U	447	163	ug/Kg
67-72-1	Hexachloroethane	21.6U	447	21.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	41.9U	447	41.9	ug/Kg
78-59-1	Isophorone	15.7U	447	15.7	ug/Kg
91-20-3	Naphthalene	17.9U	447	17.9	ug/Kg
98-95-3	Nitrobenzene	24.9U	447	24.9	ug/Kg
87-86-5	Pentachlorophenol	171U	2240	171	ug/Kg
85-01-8	Phenanthrene	14.4U	447	14.4	ug/Kg
108-95-2	Phenol	26.8U	447	26.8	ug/Kg
129-00-0	Pyrene	20.7U	447	20.7	ug/Kg
1319-77-3MP	m,p-Cresol	63.2U	447	63.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.5U	447	20.5	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.2U	447	14.2	ug/Kg
95-48-7	o-Cresol	15.9U	447	15.9	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1250	ug/Kg	75	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1340	ug/Kg	80	46 - 122
1718-51-0	Terphenyl-d14	1670	1520	ug/Kg	91	45 - 135
4165-62-2	Phenol-d5	3330	2830	ug/Kg	85	44 - 124
367-12-4	2-Fluorophenol	3330	2680	ug/Kg	80	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2740	ug/Kg	82	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 11:18	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1750U	5420	1750	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1470	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 03:12	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	817U	6290	817	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1390	1410	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 11:18	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2590U	18000	2590	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1410	ug/Kg	85	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 11:48	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.0072B**	**0.016**	**0.0046**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 18:55	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1970**	**21.7**	**1.71**	**mg/kg**
7440-36-0	**Antimony**	**0.59B**	**6.51**	**0.32**	**mg/kg**
7440-38-2	**Arsenic**	**0.92B**	**4.34**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**17.1**	**1.08**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**0.14B**	**0.54**	**0.0075**	**mg/kg**
7440-43-9	**Cadmium**	**0.20B**	**0.54**	**0.026**	**mg/kg**
7440-47-3	**Chromium**	**2.43**	**1.08**	**0.031**	**mg/kg**
7440-48-4	**Cobalt**	**0.93B**	**1.08**	**0.059**	**mg/kg**
7440-50-8	**Copper**	**3.13**	**1.08**	**0.089**	**mg/kg**
7439-89-6	**Iron**	**2100**	**10.8**	**2.46**	**mg/kg**
7439-92-1	**Lead**	**1.47B**	**1.63**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**4750**	**10.8**	**3.63**	**mg/kg**
7439-96-5	**Manganese**	**41.4**	**1.63**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**2.18B**	**4.34**	**0.085**	**mg/kg**
7440-09-7	**Potassium**	**517**	**54.2**	**4.93**	**mg/kg**
7782-49-2	**Selenium**	**0.58B**	**4.34**	**0.52**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141203	**AOCU-HA66-2**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 18:55	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.095U	1.08	0.095	mg/kg
7440-23-5	**Sodium**	**5630**	**108**	**9.51**	**mg/kg**
7440-28-0	**Thallium**	**0.51B**	**2.17**	**0.27**	**mg/kg**
7440-62-2	**Vanadium**	**5.74**	**2.17**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**7.68**	**2.17**	**0.90**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 15:50	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**129000**	**81.3**	**2.50**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	5	07/20/2011 10:36	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**12.5**	**3.39**	**0.176**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**26.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	**AOCU-HA66--2-MS**	Solid	07/12/2011 13:30	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 15:08	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	**1,1,1,2-Tetrachloroethane**	**62.2**	**6.06**	**0.261**	**ug/Kg**
71-55-6	**1,1,1-Trichloroethane**	**62.8**	**6.06**	**0.233**	**ug/Kg**
79-34-5	**1,1,2,2-Tetrachloroethane**	**68.0**	**6.06**	**0.239**	**ug/Kg**
79-00-5	**1,1,2-Trichloroethane**	**62.2**	**6.06**	**0.207**	**ug/Kg**
75-34-3	**1,1-Dichloroethane**	**61.8**	**6.06**	**0.213**	**ug/Kg**
75-35-4	**1,1-Dichloroethene**	**59.9**	**6.06**	**0.372**	**ug/Kg**
563-58-6	**1,1-Dichloropropene**	**63.2**	**6.06**	**0.240**	**ug/Kg**
87-61-6	**1,2,3-Trichlorobenzene**	**52.6**	**6.06**	**0.137**	**ug/Kg**
96-18-4	**1,2,3-Trichloropropane**	**87.0**	**6.06**	**0.199**	**ug/Kg**
120-82-1	**1,2,4-Trichlorobenzene**	**54.1**	**6.06**	**0.176**	**ug/Kg**
95-63-6	**1,2,4-Trimethylbenzene**	**59.2**	**6.06**	**0.144**	**ug/Kg**
96-12-8	**1,2-Dibromo-3-chloropropane**	**68.3**	**6.06**	**0.845**	**ug/Kg**
106-93-4	**1,2-Dibromoethane**	**63.2**	**6.06**	**0.664**	**ug/Kg**
95-50-1	**1,2-Dichlorobenzene**	**56.5**	**6.06**	**0.308**	**ug/Kg**
107-06-2	**1,2-Dichloroethane**	**59.2**	**6.06**	**0.221**	**ug/Kg**
78-87-5	**1,2-Dichloropropane**	**64.5**	**6.06**	**0.149**	**ug/Kg**
108-67-8	**1,3,5-Trimethylbenzene**	**57.3**	**6.06**	**0.138**	**ug/Kg**
541-73-1	**1,3-Dichlorobenzene**	**58.1**	**6.06**	**0.171**	**ug/Kg**
142-28-9	**1,3-Dichloropropane**	**63.6**	**6.06**	**0.162**	**ug/Kg**
106-46-7	**1,4-Dichlorobenzene**	**55.8**	**6.06**	**0.172**	**ug/Kg**
544-10-5	**1-Chlorohexane**	**66.3**	**6.06**	**0.178**	**ug/Kg**
594-20-7	**2,2-Dichloropropane**	**62.1**	**6.06**	**0.369**	**ug/Kg**
78-93-3	**2-Butanone**	**64.1**	**6.06**	**0.770**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.45U	6.06	1.45	ug/Kg
95-49-8	**2-Chlorotoluene**	**57.2**	**6.06**	**0.210**	**ug/Kg**
591-78-6	**2-Hexanone**	**60.3**	**6.06**	**0.857**	**ug/Kg**
106-43-4	**4-Chlorotoluene**	**56.0**	**6.06**	**0.133**	**ug/Kg**
99-87-6	**4-Isopropyltoluene**	**58.0**	**6.06**	**0.103**	**ug/Kg**
108-10-1	**4-Methyl-2-pentanone**	**69.5**	**6.06**	**0.273**	**ug/Kg**
67-64-1	**Acetone**	**55.2**	**30.3**	**1.31**	**ug/Kg**
75-05-8	**Acetonitrile**	**324**	**121**	**2.02**	**ug/Kg**
107-02-8	**Acrolein**	**291**	**30.3**	**2.82**	**ug/Kg**
107-13-1	**Acrylonitrile**	**350**	**30.3**	**0.703**	**ug/Kg**
107-05-1	**Allyl chloride**	**63.0**	**6.06**	**0.668**	**ug/Kg**
71-43-2	**Benzene**	**61.5**	**6.06**	**0.129**	**ug/Kg**
108-86-1	**Bromobenzene**	**56.1**	**6.06**	**0.178**	**ug/Kg**
74-97-5	**Bromochloromethane**	**58.7**	**6.06**	**0.292**	**ug/Kg**
75-27-4	**Bromodichloromethane**	**60.3**	**6.06**	**0.164**	**ug/Kg**
75-25-2	**Bromoform**	**69.9**	**6.06**	**0.259**	**ug/Kg**
74-83-9	**Bromomethane**	**51.8**	**6.06**	**0.773**	**ug/Kg**
75-15-0	**Carbon disulfide**	**58.0**	**6.06**	**0.438**	**ug/Kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	AOCU-HA66--2-MS	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 15:08	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	63.7	6.06	0.249	ug/Kg
108-90-7	Chlorobenzene	58.4	6.06	0.217	ug/Kg
75-00-3	Chloroethane	31.7	6.06	0.296	ug/Kg
67-66-3	Chloroform	59.8	6.06	0.273	ug/Kg
74-87-3	Chloromethane	60.6	6.06	0.685	ug/Kg
124-48-1	Dibromochloromethane	62.5	6.06	0.232	ug/Kg
74-95-3	Dibromomethane	61.1	6.06	0.235	ug/Kg
75-71-8	Dichlorodifluoromethane	61.1	6.06	0.144	ug/Kg
97-63-2	Ethyl methacrylate	72.2	6.06	0.523	ug/Kg
100-41-4	Ethylbenzene	60.6	6.06	0.265	ug/Kg
87-68-3	Hexachlorobutadiene	57.1	6.06	0.184	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	60.7	6.06	0.113	ug/Kg
126-98-7	Methacrylonitrile	68.0	6.06	0.535	ug/Kg
74-88-4	Methyl iodide	57.7	6.06	1.49	ug/Kg
80-62-6	Methyl methacrylate	74.3	6.06	0.969	ug/Kg
75-09-2	Methylene chloride	48.5	12.1	0.583	ug/Kg
91-20-3	Naphthalene	55.8	6.06	0.212	ug/Kg
76-01-7	Pentachloroethane	665	6.06	0.990	ug/Kg
107-12-0	Propionitrile	375	6.06	3.08	ug/Kg
100-42-5	Styrene	58.8	6.06	0.499	ug/Kg
127-18-4	Tetrachloroethene	66.8	6.06	0.247	ug/Kg
108-88-3	Toluene	62.1	6.06	0.320	ug/Kg
79-01-6	Trichloroethene	63.0	6.06	0.211	ug/Kg
75-69-4	Trichlorofluoromethane	60.2	6.06	0.247	ug/Kg
76-13-1	Trichlorotrifluoroethane	60.4	6.06	0.242	ug/Kg
108-05-4	Vinyl acetate	78.3	6.06	0.268	ug/Kg
75-01-4	Vinyl chloride	62.1	6.06	0.303	ug/Kg
156-59-2	cis-1,2-Dichloroethene	57.3	6.06	0.156	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	60.2	6.06	0.395	ug/Kg
136777-61-2	m,p-Xylene	121	6.06	0.430	ug/Kg
104-51-8	n-Butylbenzene	57.1	6.06	0.172	ug/Kg
110-54-3	n-Hexane	57.3	6.06	0.390	ug/Kg
103-65-1	n-Propylbenzene	57.3	6.06	0.133	ug/Kg
95-47-6	o-Xylene	59.1	6.06	0.175	ug/Kg
135-98-8	sec-Butylbenzene	59.1	6.06	0.131	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	55.8	6.06	0.290	ug/Kg
98-06-6	tert-Butylbenzene	58.6	6.06	0.167	ug/Kg
156-60-5	trans-1,2-Dichloroethene	60.4	6.06	0.387	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	61.4	6.06	0.576	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	163	6.06	0.628	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	44.7	46.4	ug/Kg	104	59 - 148
1868-53-7	Dibromofluoromethane	44.7	46.6	ug/Kg	104	80 - 121
2037-26-5	Toluene d8	44.7	45.3	ug/Kg	101	71 - 130
17060-07-0	1,2-Dichloroethane-d4	44.7	51.6	ug/Kg	115	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	**AOCU-HA66--2-MS**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**3700**	**441**	**15.1**	**ug/Kg**
95-50-1	1,2-Dichlorobenzene	14.8U	441	14.8	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.7U	441	16.7	ug/Kg
106-46-7	**1,4-Dichlorobenzene**	**3540**	**441**	**13.9**	**ug/Kg**
95-95-4	2,4,5-Trichlorophenol	29.8U	441	29.8	ug/Kg
88-06-2	2,4,6-Trichlorophenol	105U	441	105	ug/Kg
120-83-2	2,4-Dichlorophenol	47.3U	441	47.3	ug/Kg
105-67-9	2,4-Dimethylphenol	312U	441	312	ug/Kg
51-28-5	2,4-Dinitrophenol	203U	441	203	ug/Kg
121-14-2	**2,4-Dinitrotoluene**	**3930**	**441**	**26.8**	**ug/Kg**
606-20-2	2,6-Dinitrotoluene	35.6U	441	35.6	ug/Kg
91-58-7	2-Chloronaphthalene	14.2U	441	14.2	ug/Kg
95-57-8	**2-Chlorophenol**	**3840**	**441**	**15.5**	**ug/Kg**
91-57-6	2-Methylnaphthalene	12.0U	441	12.0	ug/Kg
88-74-4	2-Nitroaniline	32.1U	2210	32.1	ug/Kg
88-75-5	2-Nitrophenol	32.8U	441	32.8	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	409U	883	409	ug/Kg
99-09-2	3-Nitroaniline	29.4U	2210	29.4	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	201U	2210	201	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	24.7U	441	24.7	ug/Kg
59-50-7	**4-Chloro-3-methylphenol**	**3730**	**441**	**42.1**	**ug/Kg**
106-47-8	4-Chloroaniline	29.7U	441	29.7	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.0U	441	25.0	ug/Kg
100-01-6	4-Nitroaniline	218U	2210	218	ug/Kg
100-02-7	**4-Nitrophenol**	**3170**	**2210**	**125**	**ug/Kg**
83-32-9	**Acenaphthene**	**3860**	**441**	**17.5**	**ug/Kg**
208-96-8	Acenaphthylene	17.5U	441	17.5	ug/Kg
120-12-7	Anthracene	15.2U	441	15.2	ug/Kg
92-87-5	Benzidine	2210U	2210	2210	ug/Kg
56-55-3	Benzo(a)anthracene	34.5U	441	34.5	ug/Kg
50-32-8	Benzo(a)pyrene	16.5U	441	16.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	40.7U	441	40.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.0U	441	14.0	ug/Kg
207-08-9	Benzo(k)fluoranthene	17.9U	441	17.9	ug/Kg
65-85-0	Benzoic acid	91.0U	2210	91.0	ug/Kg
100-51-6	Benzyl alcohol	60.3U	441	60.3	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	34.5U	441	34.5	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	32.5U	441	32.5	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	27.6U	441	27.6	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.2U	441	26.2	ug/Kg
85-68-7	Butyl benzyl phthalate	7.93U	441	7.93	ug/Kg
218-01-9	Chrysene	19.4U	441	19.4	ug/Kg
84-74-2	Di-n-butyl phthalate	17.5U	441	17.5	ug/Kg
117-84-0	Di-n-octyl phthalate	5.94U	441	5.94	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.4U	441	15.4	ug/Kg
132-64-9	Dibenzofuran	14.3U	441	14.3	ug/Kg
84-66-2	Diethyl phthalate	27.2U	441	27.2	ug/Kg
131-11-3	Dimethyl phthalate	18.9U	441	18.9	ug/Kg
206-44-0	Fluoranthene	8.72U	441	8.72	ug/Kg
86-73-7	Fluorene	17.3U	441	17.3	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	**AOCU-HA66--2-MS**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 12:46	KCB	461414

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	25.5U	441	25.5	ug/Kg
87-68-3	Hexachlorobutadiene	26.8U	441	26.8	ug/Kg
77-47-4	Hexachlorocyclopentadiene	161U	441	161	ug/Kg
67-72-1	Hexachloroethane	21.3U	441	21.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	41.3U	441	41.3	ug/Kg
78-59-1	Isophorone	15.5U	441	15.5	ug/Kg
91-20-3	Naphthalene	17.7U	441	17.7	ug/Kg
98-95-3	Nitrobenzene	24.6U	441	24.6	ug/Kg
87-86-5	**Pentachlorophenol**	**3460**	**2210**	**169**	**ug/Kg**
85-01-8	Phenanthrene	14.2U	441	14.2	ug/Kg
108-95-2	**Phenol**	**3740**	**441**	**26.5**	**ug/Kg**
129-00-0	**Pyrene**	**4500**	**441**	**20.5**	**ug/Kg**
1319-77-3MP	m,p-Cresol	62.3U	441	62.3	ug/Kg
621-64-7	**n-Nitrosodi-n-propylamine**	**3560**	**441**	**20.2**	**ug/Kg**
86-30-6	n-Nitrosodiphenylamine	14.0U	441	14.0	ug/Kg
95-48-7	o-Cresol	15.6U	441	15.6	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	1330	ug/Kg	81	41 - 123
321-60-8	2-Fluorobiphenyl	1640	1450	ug/Kg	88	46 - 122
1718-51-0	Terphenyl-d14	1640	1660	ug/Kg	101	45 - 135
4165-62-2	Phenol-d5	3290	2960	ug/Kg	90	44 - 124
367-12-4	2-Fluorophenol	3290	2900	ug/Kg	88	45 - 114
118-79-6	2,4,6-Tribromophenol	3290	3140	ug/Kg	95	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 11:36	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**39800**	**5420**	**1750**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1460	ug/Kg	88	67 - 120

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 03:36	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**28700**	**6290**	**817**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1390	1440	ug/Kg	103	47 - 164

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	**AOCU-HA66--2-MS**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 12:12	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**77200**	**18000**	**2580**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1380	ug/Kg	83	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 11:50	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.43**	**0.016**	**0.0046**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 19:01	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**3740**	**21.7**	**1.71**	**mg/kg**
7440-36-0	**Antimony**	**12.7**	**6.51**	**0.32**	**mg/kg**
7440-38-2	**Arsenic**	**29.8**	**4.34**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**41.2**	**1.08**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**25.0**	**0.54**	**0.0075**	**mg/kg**
7440-43-9	**Cadmium**	**25.1**	**0.54**	**0.026**	**mg/kg**
7440-47-3	**Chromium**	**28.5**	**1.08**	**0.031**	**mg/kg**
7440-48-4	**Cobalt**	**27.6**	**1.08**	**0.059**	**mg/kg**
7440-50-8	**Copper**	**30.2**	**1.08**	**0.089**	**mg/kg**
7439-89-6	**Iron**	**3140**	**10.8**	**2.46**	**mg/kg**
7439-92-1	**Lead**	**27.4**	**1.63**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**6330**	**10.8**	**3.63**	**mg/kg**
7439-96-5	**Manganese**	**79.6**	**1.63**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**28.8**	**4.34**	**0.085**	**mg/kg**
7440-09-7	**Potassium**	**1510**	**54.2**	**4.93**	**mg/kg**
7782-49-2	**Selenium**	**28.4**	**4.34**	**0.52**	**mg/kg**
7440-22-4	**Silver**	**25.4**	**1.08**	**0.095**	**mg/kg**
7440-23-5	**Sodium**	**7520**	**108**	**9.51**	**mg/kg**
7440-28-0	**Thallium**	**26.3**	**2.17**	**0.27**	**mg/kg**
7440-62-2	**Vanadium**	**33.2**	**2.17**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**37.4**	**2.17**	**0.90**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141204	**AOCU-HA66--2-MS**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 15:56	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**129000**	**81.3**	**2.50**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	5	07/20/2011 10:38	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**49.6**	**3.39**	**0.176**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**26.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 15:34	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	65.6	6.43	0.276	ug/Kg
71-55-6	1,1,1-Trichloroethane	66.3	6.43	0.247	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	77.5	6.43	0.253	ug/Kg
79-00-5	1,1,2-Trichloroethane	68.4	6.43	0.220	ug/Kg
75-34-3	1,1-Dichloroethane	59.8	6.43	0.226	ug/Kg
75-35-4	1,1-Dichloroethene	60.0	6.43	0.395	ug/Kg
563-58-6	1,1-Dichloropropene	66.0	6.43	0.255	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	55.3	6.43	0.145	ug/Kg
96-18-4	1,2,3-Trichloropropane	101	6.43	0.211	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	55.6	6.43	0.186	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	62.5	6.43	0.153	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	81.5	6.43	0.896	ug/Kg
106-93-4	1,2-Dibromoethane	70.5	6.43	0.705	ug/Kg
95-50-1	1,2-Dichlorobenzene	59.9	6.43	0.327	ug/Kg
107-06-2	1,2-Dichloroethane	64.2	6.43	0.234	ug/Kg
78-87-5	1,2-Dichloropropane	67.0	6.43	0.158	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	59.8	6.43	0.147	ug/Kg
541-73-1	1,3-Dichlorobenzene	61.7	6.43	0.181	ug/Kg
142-28-9	1,3-Dichloropropane	69.9	6.43	0.172	ug/Kg
106-46-7	1,4-Dichlorobenzene	59.0	6.43	0.183	ug/Kg
544-10-5	1-Chlorohexane	69.0	6.43	0.189	ug/Kg
594-20-7	2,2-Dichloropropane	61.0	6.43	0.391	ug/Kg
78-93-3	2-Butanone	79.2	6.43	0.817	ug/Kg
110-75-8	2-Chloroethylvinyl ether	55.8	6.43	1.54	ug/Kg
95-49-8	2-Chlorotoluene	60.6	6.43	0.222	ug/Kg
591-78-6	2-Hexanone	73.1	6.43	0.909	ug/Kg
106-43-4	4-Chlorotoluene	60.0	6.43	0.141	ug/Kg
99-87-6	4-Isopropyltoluene	60.3	6.43	0.109	ug/Kg
108-10-1	4-Methyl-2-pentanone	82.8	6.43	0.289	ug/Kg
67-64-1	Acetone	72.4	32.1	1.39	ug/Kg
75-05-8	Acetonitrile	403	129	2.15	ug/Kg
107-02-8	Acrolein	375	32.1	3.00	ug/Kg
107-13-1	Acrylonitrile	422	32.1	0.746	ug/Kg
107-05-1	Allyl chloride	63.7	6.43	0.709	ug/Kg
71-43-2	Benzene	66.0	6.43	0.136	ug/Kg
108-86-1	Bromobenzene	59.8	6.43	0.189	ug/Kg
74-97-5	Bromochloromethane	64.4	6.43	0.310	ug/Kg
75-27-4	Bromodichloromethane	63.4	6.43	0.174	ug/Kg
75-25-2	Bromoform	78.6	6.43	0.275	ug/Kg
74-83-9	Bromomethane	59.4	6.43	0.820	ug/Kg
75-15-0	Carbon disulfide	61.5	6.43	0.464	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	AOCU-HA66--2-MSD	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 15:34	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	67.0	6.43	0.264	ug/Kg
108-90-7	Chlorobenzene	61.3	6.43	0.230	ug/Kg
75-00-3	Chloroethane	33.3	6.43	0.314	ug/Kg
67-66-3	Chloroform	62.5	6.43	0.289	ug/Kg
74-87-3	Chloromethane	64.9	6.43	0.727	ug/Kg
124-48-1	Dibromochloromethane	69.0	6.43	0.246	ug/Kg
74-95-3	Dibromomethane	67.1	6.43	0.249	ug/Kg
75-71-8	Dichlorodifluoromethane	65.2	6.43	0.153	ug/Kg
97-63-2	Ethyl methacrylate	78.7	6.43	0.554	ug/Kg
100-41-4	Ethylbenzene	62.8	6.43	0.282	ug/Kg
87-68-3	Hexachlorobutadiene	53.1	6.43	0.195	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	62.8	6.43	0.120	ug/Kg
126-98-7	Methacrylonitrile	78.9	6.43	0.567	ug/Kg
74-88-4	Methyl iodide	58.4	6.43	1.58	ug/Kg
80-62-6	Methyl methacrylate	85.9	6.43	1.03	ug/Kg
75-09-2	Methylene chloride	50.8	12.9	0.619	ug/Kg
91-20-3	Naphthalene	64.9	6.43	0.225	ug/Kg
76-01-7	Pentachloroethane	718	6.43	1.05	ug/Kg
107-12-0	Propionitrile	470	6.43	3.27	ug/Kg
100-42-5	Styrene	61.9	6.43	0.530	ug/Kg
127-18-4	Tetrachloroethene	69.4	6.43	0.262	ug/Kg
108-88-3	Toluene	63.6	6.43	0.339	ug/Kg
79-01-6	Trichloroethene	66.7	6.43	0.224	ug/Kg
75-69-4	Trichlorofluoromethane	63.4	6.43	0.262	ug/Kg
76-13-1	Trichlorotrifluoroethane	63.2	6.43	0.257	ug/Kg
108-05-4	Vinyl acetate	92.6	6.43	0.284	ug/Kg
75-01-4	Vinyl chloride	66.8	6.43	0.321	ug/Kg
156-59-2	cis-1,2-Dichloroethene	60.9	6.43	0.166	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	64.4	6.43	0.419	ug/Kg
136777-61-2	m,p-Xylene	126	6.43	0.457	ug/Kg
104-51-8	n-Butylbenzene	57.3	6.43	0.183	ug/Kg
110-54-3	n-Hexane	60.4	6.43	0.414	ug/Kg
103-65-1	n-Propylbenzene	60.0	6.43	0.141	ug/Kg
95-47-6	o-Xylene	62.6	6.43	0.185	ug/Kg
135-98-8	sec-Butylbenzene	60.6	6.43	0.139	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	60.2	6.43	0.307	ug/Kg
98-06-6	tert-Butylbenzene	60.7	6.43	0.177	ug/Kg
156-60-5	trans-1,2-Dichloroethene	62.5	6.43	0.410	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	66.3	6.43	0.611	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	186	6.43	0.666	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	47.4	48.3	ug/Kg	102	59 - 148
1868-53-7	Dibromofluoromethane	47.4	49.3	ug/Kg	104	80 - 121
2037-26-5	Toluene d8	47.4	47.1	ug/Kg	99	71 - 130
17060-07-0	1,2-Dichloroethane-d4	47.4	55.8	ug/Kg	118	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:01	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	**1,2,4-Trichlorobenzene**	**3630**	**447**	**15.3**	**ug/Kg**
95-50-1	1,2-Dichlorobenzene	15.0U	447	15.0	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.9U	447	16.9	ug/Kg
106-46-7	**1,4-Dichlorobenzene**	**3420**	**447**	**14.1**	**ug/Kg**
95-95-4	2,4,5-Trichlorophenol	30.2U	447	30.2	ug/Kg
88-06-2	2,4,6-Trichlorophenol	107U	447	107	ug/Kg
120-83-2	2,4-Dichlorophenol	48.0U	447	48.0	ug/Kg
105-67-9	2,4-Dimethylphenol	316U	447	316	ug/Kg
51-28-5	2,4-Dinitrophenol	206U	447	206	ug/Kg
121-14-2	**2,4-Dinitrotoluene**	**4310**	**447**	**27.1**	**ug/Kg**
606-20-2	2,6-Dinitrotoluene	36.1U	447	36.1	ug/Kg
91-58-7	2-Chloronaphthalene	14.4U	447	14.4	ug/Kg
95-57-8	**2-Chlorophenol**	**3840**	**447**	**15.7**	**ug/Kg**
91-57-6	2-Methylnaphthalene	12.1U	447	12.1	ug/Kg
88-74-4	2-Nitroaniline	32.5U	2240	32.5	ug/Kg
88-75-5	2-Nitrophenol	33.2U	447	33.2	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	415U	895	415	ug/Kg
99-09-2	3-Nitroaniline	29.8U	2240	29.8	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	203U	2240	203	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.1U	447	25.1	ug/Kg
59-50-7	**4-Chloro-3-methylphenol**	**3930**	**447**	**42.7**	**ug/Kg**
106-47-8	4-Chloroaniline	30.1U	447	30.1	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	25.3U	447	25.3	ug/Kg
100-01-6	4-Nitroaniline	221U	2240	221	ug/Kg
100-02-7	**4-Nitrophenol**	**3620**	**2240**	**126**	**ug/Kg**
83-32-9	**Acenaphthene**	**3820**	**447**	**17.8**	**ug/Kg**
208-96-8	Acenaphthylene	17.8U	447	17.8	ug/Kg
120-12-7	Anthracene	15.5U	447	15.5	ug/Kg
92-87-5	Benzidine	2240U	2240	2240	ug/Kg
56-55-3	Benzo(a)anthracene	35.0U	447	35.0	ug/Kg
50-32-8	Benzo(a)pyrene	16.7U	447	16.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	41.2U	447	41.2	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.2U	447	14.2	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.2U	447	18.2	ug/Kg
65-85-0	Benzoic acid	92.2U	2240	92.2	ug/Kg
100-51-6	Benzyl alcohol	61.1U	447	61.1	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	35.0U	447	35.0	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	32.9U	447	32.9	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	27.9U	447	27.9	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.6U	447	26.6	ug/Kg
85-68-7	Butyl benzyl phthalate	8.04U	447	8.04	ug/Kg
218-01-9	Chrysene	19.7U	447	19.7	ug/Kg
84-74-2	Di-n-butyl phthalate	17.8U	447	17.8	ug/Kg
117-84-0	Di-n-octyl phthalate	6.02U	447	6.02	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.6U	447	15.6	ug/Kg
132-64-9	Dibenzofuran	14.5U	447	14.5	ug/Kg
84-66-2	Diethyl phthalate	27.5U	447	27.5	ug/Kg
131-11-3	Dimethyl phthalate	19.1U	447	19.1	ug/Kg
206-44-0	Fluoranthene	8.84U	447	8.84	ug/Kg
86-73-7	Fluorene	17.5U	447	17.5	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:01	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
118-74-1	Hexachlorobenzene	25.9U	447	25.9	ug/Kg
87-68-3	Hexachlorobutadiene	27.1U	447	27.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	163U	447	163	ug/Kg
67-72-1	Hexachloroethane	21.6U	447	21.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	41.9U	447	41.9	ug/Kg
78-59-1	Isophorone	15.7U	447	15.7	ug/Kg
91-20-3	Naphthalene	17.9U	447	17.9	ug/Kg
98-95-3	Nitrobenzene	24.9U	447	24.9	ug/Kg
87-86-5	**Pentachlorophenol**	**3580**	**2240**	**171**	**ug/Kg**
85-01-8	Phenanthrene	14.4U	447	14.4	ug/Kg
108-95-2	**Phenol**	**3730**	**447**	**26.8**	**ug/Kg**
129-00-0	**Pyrene**	**4260**	**447**	**20.7**	**ug/Kg**
1319-77-3MP	m,p-Cresol	63.2U	447	63.2	ug/Kg
621-64-7	**n-Nitrosodi-n-propylamine**	**3580**	**447**	**20.5**	**ug/Kg**
86-30-6	n-Nitrosodiphenylamine	14.2U	447	14.2	ug/Kg
95-48-7	o-Cresol	15.9U	447	15.9	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1320	ug/Kg	79	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1420	ug/Kg	85	46 - 122
1718-51-0	Terphenyl-d14	1670	1610	ug/Kg	97	45 - 135
4165-62-2	Phenol-d5	3330	2970	ug/Kg	89	44 - 124
367-12-4	2-Fluorophenol	3330	2890	ug/Kg	87	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	3400	ug/Kg	102	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 11:54	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	**Diesel Range Organics**	**40500**	**5420**	**1750**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1470	ug/Kg	88	67 - 120

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 04:00	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	**Gasoline Range Organics**	**35500**	**7370**	**958**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1630	1720	ug/Kg	105	47 - 164

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 13:05	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**78700**	**18000**	**2590**	**ug/Kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1380	ug/Kg	83	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 11:51	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.42**	**0.016**	**0.0046**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 19:07	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**3070**	**21.7**	**1.71**	**mg/kg**
7440-36-0	**Antimony**	**12.6**	**6.51**	**0.32**	**mg/kg**
7440-38-2	**Arsenic**	**27.8**	**4.34**	**0.24**	**mg/kg**
7440-39-3	**Barium**	**38.3**	**1.08**	**0.030**	**mg/kg**
7440-41-7	**Beryllium**	**23.6**	**0.54**	**0.0075**	**mg/kg**
7440-43-9	**Cadmium**	**23.1**	**0.54**	**0.026**	**mg/kg**
7440-47-3	**Chromium**	**26.4**	**1.08**	**0.031**	**mg/kg**
7440-48-4	**Cobalt**	**25.8**	**1.08**	**0.059**	**mg/kg**
7440-50-8	**Copper**	**28.3**	**1.08**	**0.089**	**mg/kg**
7439-89-6	**Iron**	**2490**	**10.8**	**2.46**	**mg/kg**
7439-92-1	**Lead**	**24.7**	**1.63**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**6440**	**10.8**	**3.63**	**mg/kg**
7439-96-5	**Manganese**	**73.8**	**1.63**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**27.0**	**4.34**	**0.085**	**mg/kg**
7440-09-7	**Potassium**	**1270**	**54.2**	**4.93**	**mg/kg**
7782-49-2	**Selenium**	**26.8**	**4.34**	**0.52**	**mg/kg**
7440-22-4	**Silver**	**23.9**	**1.08**	**0.095**	**mg/kg**
7440-23-5	**Sodium**	**6670**	**108**	**9.51**	**mg/kg**
7440-28-0	**Thallium**	**24.8**	**2.17**	**0.27**	**mg/kg**
7440-62-2	**Vanadium**	**31.2**	**2.17**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**32.9**	**2.17**	**0.90**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141205	**AOCU-HA66--2-MSD**	Solid	07/12/2011 13:30	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:02	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**134000**	**81.3**	**2.50**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	5	07/20/2011 10:39	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**49.3**	**3.39**	**0.176**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**26.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:34	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.222U	5.16	0.222	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.198U	5.16	0.198	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.203U	5.16	0.203	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.176U	5.16	0.176	ug/Kg
75-34-3	1,1-Dichloroethane	0.182U	5.16	0.182	ug/Kg
75-35-4	1,1-Dichloroethene	0.317U	5.16	0.317	ug/Kg
563-58-6	1,1-Dichloropropene	0.204U	5.16	0.204	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.117U	5.16	0.117	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.169U	5.16	0.169	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.150U	5.16	0.150	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.123U	5.16	0.123	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.719U	5.16	0.719	ug/Kg
106-93-4	1,2-Dibromoethane	0.566U	5.16	0.566	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.262U	5.16	0.262	ug/Kg
107-06-2	1,2-Dichloroethane	0.188U	5.16	0.188	ug/Kg
78-87-5	1,2-Dichloropropane	0.127U	5.16	0.127	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.118U	5.16	0.118	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.146U	5.16	0.146	ug/Kg
142-28-9	1,3-Dichloropropane	0.138U	5.16	0.138	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.147U	5.16	0.147	ug/Kg
544-10-5	1-Chlorohexane	0.152U	5.16	0.152	ug/Kg
594-20-7	2,2-Dichloropropane	0.314U	5.16	0.314	ug/Kg
78-93-3	**2-Butanone**	**7.17**	**5.16**	**0.655**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.24U	5.16	1.24	ug/Kg
95-49-8	2-Chlorotoluene	0.179U	5.16	0.179	ug/Kg
591-78-6	2-Hexanone	0.730U	5.16	0.730	ug/Kg
106-43-4	4-Chlorotoluene	0.114U	5.16	0.114	ug/Kg
99-87-6	4-Isopropyltoluene	0.088U	5.16	0.088	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.232U	5.16	0.232	ug/Kg
67-64-1	**Acetone**	**16.6J**	**25.8**	**1.11**	**ug/Kg**
75-05-8	Acetonitrile	1.72U	103	1.72	ug/Kg
107-02-8	Acrolein	2.40U	25.8	2.40	ug/Kg
107-13-1	Acrylonitrile	0.599U	25.8	0.599	ug/Kg
107-05-1	Allyl chloride	0.569U	5.16	0.569	ug/Kg
71-43-2	**Benzene**	**2.60J**	**5.16**	**0.109**	**ug/Kg**
108-86-1	Bromobenzene	0.152U	5.16	0.152	ug/Kg
74-97-5	Bromochloromethane	0.249U	5.16	0.249	ug/Kg
75-27-4	Bromodichloromethane	0.139U	5.16	0.139	ug/Kg
75-25-2	Bromoform	0.221U	5.16	0.221	ug/Kg
74-83-9	Bromomethane	0.658U	5.16	0.658	ug/Kg
75-15-0	Carbon disulfide	0.373U	5.16	0.373	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:34	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.212U	5.16	0.212	ug/Kg
108-90-7	Chlorobenzene	0.185U	5.16	0.185	ug/Kg
75-00-3	Chloroethane	0.252U	5.16	0.252	ug/Kg
67-66-3	**Chloroform**	**0.788J**	**5.16**	**0.232**	**ug/Kg**
74-87-3	Chloromethane	0.583U	5.16	0.583	ug/Kg
124-48-1	Dibromochloromethane	0.197U	5.16	0.197	ug/Kg
74-95-3	Dibromomethane	0.200U	5.16	0.200	ug/Kg
75-71-8	Dichlorodifluoromethane	0.123U	5.16	0.123	ug/Kg
97-63-2	Ethyl methacrylate	0.445U	5.16	0.445	ug/Kg
100-41-4	Ethylbenzene	0.226U	5.16	0.226	ug/Kg
87-68-3	Hexachlorobutadiene	0.157U	5.16	0.157	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.096U	5.16	0.096	ug/Kg
126-98-7	Methacrylonitrile	0.455U	5.16	0.455	ug/Kg
74-88-4	Methyl iodide	1.27U	5.16	1.27	ug/Kg
80-62-6	Methyl methacrylate	0.825U	5.16	0.825	ug/Kg
75-09-2	Methylene chloride	0.496U	10.3	0.496	ug/Kg
91-20-3	Naphthalene	0.181U	5.16	0.181	ug/Kg
76-01-7	Pentachloroethane	0.843U	5.16	0.843	ug/Kg
107-12-0	Propionitrile	2.62U	5.16	2.62	ug/Kg
100-42-5	Styrene	0.425U	5.16	0.425	ug/Kg
127-18-4	Tetrachloroethene	0.211U	5.16	0.211	ug/Kg
108-88-3	**Toluene**	**2.60J**	**5.16**	**0.272**	**ug/Kg**
79-01-6	Trichloroethene	0.180U	5.16	0.180	ug/Kg
75-69-4	Trichlorofluoromethane	0.211U	5.16	0.211	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.206U	5.16	0.206	ug/Kg
108-05-4	Vinyl acetate	0.228U	5.16	0.228	ug/Kg
75-01-4	Vinyl chloride	0.258U	5.16	0.258	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.133U	5.16	0.133	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.336U	5.16	0.336	ug/Kg
136777-61-2	m,p-Xylene	0.366U	5.16	0.366	ug/Kg
104-51-8	n-Butylbenzene	0.147U	5.16	0.147	ug/Kg
110-54-3	**n-Hexane**	**1.77J**	**5.16**	**0.332**	**ug/Kg**
103-65-1	n-Propylbenzene	0.114U	5.16	0.114	ug/Kg
95-47-6	**o-Xylene**	**1.01J**	**5.16**	**0.149**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.111U	5.16	0.111	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.247U	5.16	0.247	ug/Kg
98-06-6	tert-Butylbenzene	0.142U	5.16	0.142	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.329U	5.16	0.329	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.490U	5.16	0.490	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.535U	5.16	0.535	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	39.7	39.1	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	39.7	40.1	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	39.7	39.6	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	39.7	42.9	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:34	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:16	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	14.6U	427	14.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	14.4U	427	14.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.2U	427	16.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	13.5U	427	13.5	ug/Kg
95-95-4	2,4,5-Trichlorophenol	28.9U	427	28.9	ug/Kg
88-06-2	2,4,6-Trichlorophenol	102U	427	102	ug/Kg
120-83-2	2,4-Dichlorophenol	45.8U	427	45.8	ug/Kg
105-67-9	2,4-Dimethylphenol	301U	427	301	ug/Kg
51-28-5	2,4-Dinitrophenol	197U	427	197	ug/Kg
121-14-2	2,4-Dinitrotoluene	25.9U	427	25.9	ug/Kg
606-20-2	2,6-Dinitrotoluene	34.4U	427	34.4	ug/Kg
91-58-7	2-Chloronaphthalene	13.7U	427	13.7	ug/Kg
95-57-8	2-Chlorophenol	15.0U	427	15.0	ug/Kg
91-57-6	2-Methylnaphthalene	11.6U	427	11.6	ug/Kg
88-74-4	2-Nitroaniline	31.1U	2130	31.1	ug/Kg
88-75-5	2-Nitrophenol	31.7U	427	31.7	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	396U	854	396	ug/Kg
99-09-2	3-Nitroaniline	28.5U	2130	28.5	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	194U	2130	194	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	23.9U	427	23.9	ug/Kg
59-50-7	4-Chloro-3-methylphenol	40.8U	427	40.8	ug/Kg
106-47-8	4-Chloroaniline	28.7U	427	28.7	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	24.2U	427	24.2	ug/Kg
100-01-6	4-Nitroaniline	211U	2130	211	ug/Kg
100-02-7	4-Nitrophenol	120U	2130	120	ug/Kg
83-32-9	Acenaphthene	17.0U	427	17.0	ug/Kg
208-96-8	Acenaphthylene	17.0U	427	17.0	ug/Kg
120-12-7	Anthracene	14.8U	427	14.8	ug/Kg
92-87-5	Benzidine	2130U	2130	2130	ug/Kg
56-55-3	Benzo(a)anthracene	33.4U	427	33.4	ug/Kg
50-32-8	Benzo(a)pyrene	15.9U	427	15.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	39.3U	427	39.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.6U	427	13.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	17.3U	427	17.3	ug/Kg
65-85-0	Benzoic acid	88.0U	2130	88.0	ug/Kg
100-51-6	Benzyl alcohol	58.4U	427	58.4	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	33.4U	427	33.4	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	31.4U	427	31.4	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	26.7U	427	26.7	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	25.4U	427	25.4	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:16	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	7.67U	427	7.67	ug/Kg
218-01-9	Chrysene	18.8U	427	18.8	ug/Kg
84-74-2	Di-n-butyl phthalate	17.0U	427	17.0	ug/Kg
117-84-0	Di-n-octyl phthalate	5.74U	427	5.74	ug/Kg
53-70-3	Dibenz(a,h)anthracene	14.9U	427	14.9	ug/Kg
132-64-9	Dibenzofuran	13.8U	427	13.8	ug/Kg
84-66-2	Diethyl phthalate	26.3U	427	26.3	ug/Kg
131-11-3	Dimethyl phthalate	18.2U	427	18.2	ug/Kg
206-44-0	Fluoranthene	8.44U	427	8.44	ug/Kg
86-73-7	Fluorene	16.7U	427	16.7	ug/Kg
118-74-1	Hexachlorobenzene	24.7U	427	24.7	ug/Kg
87-68-3	Hexachlorobutadiene	25.9U	427	25.9	ug/Kg
77-47-4	Hexachlorocyclopentadiene	155U	427	155	ug/Kg
67-72-1	Hexachloroethane	20.6U	427	20.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	40.0U	427	40.0	ug/Kg
78-59-1	Isophorone	15.0U	427	15.0	ug/Kg
91-20-3	Naphthalene	17.1U	427	17.1	ug/Kg
98-95-3	Nitrobenzene	23.8U	427	23.8	ug/Kg
87-86-5	Pentachlorophenol	163U	2130	163	ug/Kg
85-01-8	Phenanthrene	13.7U	427	13.7	ug/Kg
108-95-2	Phenol	25.6U	427	25.6	ug/Kg
129-00-0	Pyrene	19.8U	427	19.8	ug/Kg
1319-77-3MP	m,p-Cresol	60.3U	427	60.3	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	19.5U	427	19.5	ug/Kg
86-30-6	n-Nitrosodiphenylamine	13.6U	427	13.6	ug/Kg
95-48-7	o-Cresol	15.1U	427	15.1	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1290	ug/Kg	78	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1370	ug/Kg	82	46 - 122
1718-51-0	Terphenyl-d14	1660	1540	ug/Kg	93	45 - 135
4165-62-2	Phenol-d5	3320	2910	ug/Kg	88	44 - 124
367-12-4	2-Fluorophenol	3320	2840	ug/Kg	85	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2770	ug/Kg	83	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 13:23	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1660U	5140	1660	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1650	1460	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 04:24	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	757U	5830	757	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1350	1340	ug/Kg	100	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 13:23	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2450U	17100	2450	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1650	1410	ug/Kg	85	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:03	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0044U	0.016	0.0044	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:04	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**699**	**20.8**	**1.64**	**mg/kg**
7440-36-0	**Antimony**	**0.38B**	**6.23**	**0.31**	**mg/kg**
7440-38-2	**Arsenic**	**0.75B**	**4.15**	**0.23**	**mg/kg**
7440-39-3	**Barium**	**11.3**	**1.04**	**0.028**	**mg/kg**
7440-41-7	**Beryllium**	**0.031B**	**0.52**	**0.0072**	**mg/kg**
7440-43-9	**Cadmium**	**0.15B**	**0.52**	**0.025**	**mg/kg**
7440-47-3	**Chromium**	**0.92B**	**1.04**	**0.030**	**mg/kg**
7440-48-4	**Cobalt**	**0.31B**	**1.04**	**0.057**	**mg/kg**
7440-50-8	**Copper**	**2.25**	**1.04**	**0.085**	**mg/kg**
7439-89-6	**Iron**	**675**	**10.4**	**2.35**	**mg/kg**
7439-92-1	**Lead**	**0.29B**	**1.56**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**3460**	**10.4**	**3.48**	**mg/kg**
7439-96-5	**Manganese**	**20.0**	**1.56**	**0.10**	**mg/kg**
7440-02-0	**Nickel**	**0.61B**	**4.15**	**0.082**	**mg/kg**
7440-09-7	**Potassium**	**228**	**51.9**	**4.73**	**mg/kg**
7782-49-2	Selenium	0.50U	4.15	0.50	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141206	**AOCU-HA68-2**	Solid	07/13/2011 09:05	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:04	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.091U	1.04	0.091	mg/kg
7440-23-5	**Sodium**	**2760**	**104**	**9.11**	**mg/kg**
7440-28-0	Thallium	0.26U	2.08	0.26	mg/kg
7440-62-2	**Vanadium**	**3.58**	**2.08**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**2.56**	**2.08**	**0.86**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:27	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**96100**	**77.9**	**2.39**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:24	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**9.73**	**0.649**	**0.034**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**23.0**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:01	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.246U	5.73	0.246	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.220U	5.73	0.220	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.226U	5.73	0.226	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.196U	5.73	0.196	ug/Kg
75-34-3	1,1-Dichloroethane	0.202U	5.73	0.202	ug/Kg
75-35-4	1,1-Dichloroethene	0.352U	5.73	0.352	ug/Kg
563-58-6	1,1-Dichloropropene	0.227U	5.73	0.227	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.130U	5.73	0.130	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.188U	5.73	0.188	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.166U	5.73	0.166	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.136U	5.73	0.136	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.799U	5.73	0.799	ug/Kg
106-93-4	1,2-Dibromoethane	0.628U	5.73	0.628	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.291U	5.73	0.291	ug/Kg
107-06-2	1,2-Dichloroethane	0.209U	5.73	0.209	ug/Kg
78-87-5	1,2-Dichloropropane	0.141U	5.73	0.141	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.131U	5.73	0.131	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.162U	5.73	0.162	ug/Kg
142-28-9	1,3-Dichloropropane	0.154U	5.73	0.154	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.163U	5.73	0.163	ug/Kg
544-10-5	1-Chlorohexane	0.168U	5.73	0.168	ug/Kg
594-20-7	2,2-Dichloropropane	0.348U	5.73	0.348	ug/Kg
78-93-3	**2-Butanone**	**5.18J**	**5.73**	**0.728**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.38U	5.73	1.38	ug/Kg
95-49-8	2-Chlorotoluene	0.198U	5.73	0.198	ug/Kg
591-78-6	2-Hexanone	0.810U	5.73	0.810	ug/Kg
106-43-4	4-Chlorotoluene	0.126U	5.73	0.126	ug/Kg
99-87-6	4-Isopropyltoluene	0.097U	5.73	0.097	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.258U	5.73	0.258	ug/Kg
67-64-1	**Acetone**	**9.10J**	**28.7**	**1.24**	**ug/Kg**
75-05-8	Acetonitrile	1.91U	115	1.91	ug/Kg
107-02-8	Acrolein	2.67U	28.7	2.67	ug/Kg
107-13-1	Acrylonitrile	0.665U	28.7	0.665	ug/Kg
107-05-1	Allyl chloride	0.631U	5.73	0.631	ug/Kg
71-43-2	**Benzene**	**2.09J**	**5.73**	**0.121**	**ug/Kg**
108-86-1	Bromobenzene	0.168U	5.73	0.168	ug/Kg
74-97-5	Bromochloromethane	0.276U	5.73	0.276	ug/Kg
75-27-4	Bromodichloromethane	0.155U	5.73	0.155	ug/Kg
75-25-2	Bromoform	0.245U	5.73	0.245	ug/Kg
74-83-9	Bromomethane	0.731U	5.73	0.731	ug/Kg
75-15-0	Carbon disulfide	0.414U	5.73	0.414	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:01	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.235U	5.73	0.235	ug/Kg
108-90-7	Chlorobenzene	0.205U	5.73	0.205	ug/Kg
75-00-3	Chloroethane	0.280U	5.73	0.280	ug/Kg
67-66-3	**Chloroform**	**0.839J**	**5.73**	**0.258**	**ug/Kg**
74-87-3	Chloromethane	0.648U	5.73	0.648	ug/Kg
124-48-1	Dibromochloromethane	0.219U	5.73	0.219	ug/Kg
74-95-3	Dibromomethane	0.222U	5.73	0.222	ug/Kg
75-71-8	Dichlorodifluoromethane	0.136U	5.73	0.136	ug/Kg
97-63-2	Ethyl methacrylate	0.494U	5.73	0.494	ug/Kg
100-41-4	Ethylbenzene	0.251U	5.73	0.251	ug/Kg
87-68-3	Hexachlorobutadiene	0.174U	5.73	0.174	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.107U	5.73	0.107	ug/Kg
126-98-7	Methacrylonitrile	0.505U	5.73	0.505	ug/Kg
74-88-4	Methyl iodide	1.41U	5.73	1.41	ug/Kg
80-62-6	Methyl methacrylate	0.916U	5.73	0.916	ug/Kg
75-09-2	Methylene chloride	0.551U	11.5	0.551	ug/Kg
91-20-3	Naphthalene	0.201U	5.73	0.201	ug/Kg
76-01-7	Pentachloroethane	0.936U	5.73	0.936	ug/Kg
107-12-0	Propionitrile	2.91U	5.73	2.91	ug/Kg
100-42-5	Styrene	0.472U	5.73	0.472	ug/Kg
127-18-4	Tetrachloroethene	0.234U	5.73	0.234	ug/Kg
108-88-3	**Toluene**	**1.79J**	**5.73**	**0.303**	**ug/Kg**
79-01-6	Trichloroethene	0.199U	5.73	0.199	ug/Kg
75-69-4	Trichlorofluoromethane	0.234U	5.73	0.234	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.229U	5.73	0.229	ug/Kg
108-05-4	Vinyl acetate	0.253U	5.73	0.253	ug/Kg
75-01-4	Vinyl chloride	0.287U	5.73	0.287	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.148U	5.73	0.148	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.374U	5.73	0.374	ug/Kg
136777-61-2	m,p-Xylene	0.407U	5.73	0.407	ug/Kg
104-51-8	n-Butylbenzene	0.163U	5.73	0.163	ug/Kg
110-54-3	**n-Hexane**	**1.46J**	**5.73**	**0.369**	**ug/Kg**
103-65-1	n-Propylbenzene	0.126U	5.73	0.126	ug/Kg
95-47-6	**o-Xylene**	**1.03J**	**5.73**	**0.165**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.124U	5.73	0.124	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.274U	5.73	0.274	ug/Kg
98-06-6	tert-Butylbenzene	0.158U	5.73	0.158	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.366U	5.73	0.366	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.544U	5.73	0.544	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.594U	5.73	0.594	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	43.3	42.2	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	43.3	43.5	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	43.3	43.2	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	43.3	44.8	ug/Kg	104	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:01	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:31	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.0U	437	15.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	14.7U	437	14.7	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.6U	437	16.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	13.8U	437	13.8	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.5U	437	29.5	ug/Kg
88-06-2	2,4,6-Trichlorophenol	104U	437	104	ug/Kg
120-83-2	2,4-Dichlorophenol	46.9U	437	46.9	ug/Kg
105-67-9	2,4-Dimethylphenol	309U	437	309	ug/Kg
51-28-5	2,4-Dinitrophenol	201U	437	201	ug/Kg
121-14-2	2,4-Dinitrotoluene	26.5U	437	26.5	ug/Kg
606-20-2	2,6-Dinitrotoluene	35.2U	437	35.2	ug/Kg
91-58-7	2-Chloronaphthalene	14.0U	437	14.0	ug/Kg
95-57-8	2-Chlorophenol	15.4U	437	15.4	ug/Kg
91-57-6	2-Methylnaphthalene	11.9U	437	11.9	ug/Kg
88-74-4	2-Nitroaniline	31.8U	2190	31.8	ug/Kg
88-75-5	2-Nitrophenol	32.5U	437	32.5	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	405U	874	405	ug/Kg
99-09-2	3-Nitroaniline	29.1U	2190	29.1	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	199U	2190	199	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	24.5U	437	24.5	ug/Kg
59-50-7	4-Chloro-3-methylphenol	41.7U	437	41.7	ug/Kg
106-47-8	4-Chloroaniline	29.4U	437	29.4	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	24.8U	437	24.8	ug/Kg
100-01-6	4-Nitroaniline	216U	2190	216	ug/Kg
100-02-7	4-Nitrophenol	123U	2190	123	ug/Kg
83-32-9	Acenaphthene	17.4U	437	17.4	ug/Kg
208-96-8	Acenaphthylene	17.4U	437	17.4	ug/Kg
120-12-7	Anthracene	15.1U	437	15.1	ug/Kg
92-87-5	Benzidine	2190U	2190	2190	ug/Kg
56-55-3	Benzo(a)anthracene	34.2U	437	34.2	ug/Kg
50-32-8	Benzo(a)pyrene	16.3U	437	16.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	40.3U	437	40.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.9U	437	13.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	17.8U	437	17.8	ug/Kg
65-85-0	Benzoic acid	90.1U	2190	90.1	ug/Kg
100-51-6	Benzyl alcohol	59.8U	437	59.8	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	34.2U	437	34.2	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	32.2U	437	32.2	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	27.3U	437	27.3	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.0U	437	26.0	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:31	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	7.86U	437	7.86	ug/Kg
218-01-9	Chrysene	19.2U	437	19.2	ug/Kg
84-74-2	Di-n-butyl phthalate	17.4U	437	17.4	ug/Kg
117-84-0	Di-n-octyl phthalate	5.88U	437	5.88	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.2U	437	15.2	ug/Kg
132-64-9	Dibenzofuran	14.2U	437	14.2	ug/Kg
84-66-2	Diethyl phthalate	26.9U	437	26.9	ug/Kg
131-11-3	Dimethyl phthalate	18.7U	437	18.7	ug/Kg
206-44-0	Fluoranthene	8.64U	437	8.64	ug/Kg
86-73-7	Fluorene	17.1U	437	17.1	ug/Kg
118-74-1	Hexachlorobenzene	25.3U	437	25.3	ug/Kg
87-68-3	Hexachlorobutadiene	26.5U	437	26.5	ug/Kg
77-47-4	Hexachlorocyclopentadiene	159U	437	159	ug/Kg
67-72-1	Hexachloroethane	21.1U	437	21.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	40.9U	437	40.9	ug/Kg
78-59-1	Isophorone	15.4U	437	15.4	ug/Kg
91-20-3	Naphthalene	17.5U	437	17.5	ug/Kg
98-95-3	Nitrobenzene	24.4U	437	24.4	ug/Kg
87-86-5	Pentachlorophenol	167U	2190	167	ug/Kg
85-01-8	Phenanthrene	14.0U	437	14.0	ug/Kg
108-95-2	Phenol	26.2U	437	26.2	ug/Kg
129-00-0	Pyrene	20.3U	437	20.3	ug/Kg
1319-77-3MP	m,p-Cresol	61.7U	437	61.7	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	20.0U	437	20.0	ug/Kg
86-30-6	n-Nitrosodiphenylamine	13.9U	437	13.9	ug/Kg
95-48-7	o-Cresol	15.5U	437	15.5	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1170	ug/Kg	70	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1230	ug/Kg	74	46 - 122
1718-51-0	Terphenyl-d14	1670	1300	ug/Kg	78	45 - 135
4165-62-2	Phenol-d5	3330	2550	ug/Kg	77	44 - 124
367-12-4	2-Fluorophenol	3330	2520	ug/Kg	76	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2760	ug/Kg	83	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 13:41	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1690U	5250	1690	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1650	1420	ug/Kg	86	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 04:48	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	825U	6350	825	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1440	1450	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 13:41	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2500U	17400	2500	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1650	1370	ug/Kg	83	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:04	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0045U	0.016	0.0045	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:11	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**2290**	**21.2**	**1.67**	**mg/kg**
7440-36-0	Antimony	0.31U	6.36	0.31	mg/kg
7440-38-2	**Arsenic**	**1.40B**	**4.24**	**0.23**	**mg/kg**
7440-39-3	**Barium**	**20.6**	**1.06**	**0.029**	**mg/kg**
7440-41-7	**Beryllium**	**0.11B**	**0.53**	**0.0073**	**mg/kg**
7440-43-9	**Cadmium**	**0.24B**	**0.53**	**0.026**	**mg/kg**
7440-47-3	**Chromium**	**2.51**	**1.06**	**0.031**	**mg/kg**
7440-48-4	**Cobalt**	**0.89B**	**1.06**	**0.058**	**mg/kg**
7440-50-8	**Copper**	**4.03**	**1.06**	**0.087**	**mg/kg**
7439-89-6	**Iron**	**2220**	**10.6**	**2.40**	**mg/kg**
7439-92-1	**Lead**	**1.65**	**1.59**	**0.19**	**mg/kg**
7439-95-4	**Magnesium**	**11300**	**10.6**	**3.55**	**mg/kg**
7439-96-5	**Manganese**	**59.7**	**1.59**	**0.10**	**mg/kg**
7440-02-0	**Nickel**	**2.08B**	**4.24**	**0.083**	**mg/kg**
7440-09-7	**Potassium**	**663**	**53.0**	**4.82**	**mg/kg**
7782-49-2	Selenium	0.51U	4.24	0.51	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141207	**AOCU-HA69-2**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:11	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.092U	1.06	0.092	mg/kg
7440-23-5	**Sodium**	**11700**	**106**	**9.30**	**mg/kg**
7440-28-0	Thallium	0.26U	2.12	0.26	mg/kg
7440-62-2	**Vanadium**	**7.16**	**2.12**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**7.84**	**2.12**	**0.88**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:33	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**144000**	**79.5**	**2.44**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:25	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**12.0**	**0.662**	**0.034**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**24.5**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:27	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.256U	5.95	0.256	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.228U	5.95	0.228	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.234U	5.95	0.234	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.203U	5.95	0.203	ug/Kg
75-34-3	1,1-Dichloroethane	0.209U	5.95	0.209	ug/Kg
75-35-4	1,1-Dichloroethene	0.365U	5.95	0.365	ug/Kg
563-58-6	1,1-Dichloropropene	0.236U	5.95	0.236	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.134U	5.95	0.134	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.195U	5.95	0.195	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.173U	5.95	0.173	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.142U	5.95	0.142	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.829U	5.95	0.829	ug/Kg
106-93-4	1,2-Dibromoethane	0.652U	5.95	0.652	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.302U	5.95	0.302	ug/Kg
107-06-2	1,2-Dichloroethane	0.217U	5.95	0.217	ug/Kg
78-87-5	1,2-Dichloropropane	0.146U	5.95	0.146	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.136U	5.95	0.136	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.168U	5.95	0.168	ug/Kg
142-28-9	1,3-Dichloropropane	0.159U	5.95	0.159	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.169U	5.95	0.169	ug/Kg
544-10-5	1-Chlorohexane	0.175U	5.95	0.175	ug/Kg
594-20-7	2,2-Dichloropropane	0.362U	5.95	0.362	ug/Kg
78-93-3	**2-Butanone**	**5.18J**	**5.95**	**0.756**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.43U	5.95	1.43	ug/Kg
95-49-8	2-Chlorotoluene	0.206U	5.95	0.206	ug/Kg
591-78-6	2-Hexanone	0.841U	5.95	0.841	ug/Kg
106-43-4	4-Chlorotoluene	0.131U	5.95	0.131	ug/Kg
99-87-6	4-Isopropyltoluene	0.101U	5.95	0.101	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.268U	5.95	0.268	ug/Kg
67-64-1	**Acetone**	**10.9J**	**29.7**	**1.29**	**ug/Kg**
75-05-8	Acetonitrile	1.99U	119	1.99	ug/Kg
107-02-8	Acrolein	2.77U	29.7	2.77	ug/Kg
107-13-1	Acrylonitrile	0.690U	29.7	0.690	ug/Kg
107-05-1	Allyl chloride	0.656U	5.95	0.656	ug/Kg
71-43-2	**Benzene**	**2.39J**	**5.95**	**0.126**	**ug/Kg**
108-86-1	Bromobenzene	0.175U	5.95	0.175	ug/Kg
74-97-5	Bromochloromethane	0.287U	5.95	0.287	ug/Kg
75-27-4	Bromodichloromethane	0.161U	5.95	0.161	ug/Kg
75-25-2	Bromoform	0.255U	5.95	0.255	ug/Kg
74-83-9	Bromomethane	0.759U	5.95	0.759	ug/Kg
75-15-0	Carbon disulfide	0.430U	5.95	0.430	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:27	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.244U	5.95	0.244	ug/Kg
108-90-7	Chlorobenzene	0.213U	5.95	0.213	ug/Kg
75-00-3	Chloroethane	0.290U	5.95	0.290	ug/Kg
67-66-3	**Chloroform**	**0.703J**	**5.95**	**0.268**	**ug/Kg**
74-87-3	Chloromethane	0.672U	5.95	0.672	ug/Kg
124-48-1	Dibromochloromethane	0.227U	5.95	0.227	ug/Kg
74-95-3	Dibromomethane	0.231U	5.95	0.231	ug/Kg
75-71-8	Dichlorodifluoromethane	0.142U	5.95	0.142	ug/Kg
97-63-2	Ethyl methacrylate	0.513U	5.95	0.513	ug/Kg
100-41-4	Ethylbenzene	0.261U	5.95	0.261	ug/Kg
87-68-3	Hexachlorobutadiene	0.181U	5.95	0.181	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.111U	5.95	0.111	ug/Kg
126-98-7	Methacrylonitrile	0.525U	5.95	0.525	ug/Kg
74-88-4	Methyl iodide	1.46U	5.95	1.46	ug/Kg
80-62-6	Methyl methacrylate	0.951U	5.95	0.951	ug/Kg
75-09-2	Methylene chloride	0.572U	11.9	0.572	ug/Kg
91-20-3	Naphthalene	0.208U	5.95	0.208	ug/Kg
76-01-7	Pentachloroethane	0.972U	5.95	0.972	ug/Kg
107-12-0	Propionitrile	3.02U	5.95	3.02	ug/Kg
100-42-5	Styrene	0.490U	5.95	0.490	ug/Kg
127-18-4	Tetrachloroethene	0.243U	5.95	0.243	ug/Kg
108-88-3	**Toluene**	**2.27J**	**5.95**	**0.314**	**ug/Kg**
79-01-6	Trichloroethene	0.207U	5.95	0.207	ug/Kg
75-69-4	Trichlorofluoromethane	0.243U	5.95	0.243	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.238U	5.95	0.238	ug/Kg
108-05-4	Vinyl acetate	0.263U	5.95	0.263	ug/Kg
75-01-4	Vinyl chloride	0.297U	5.95	0.297	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.153U	5.95	0.153	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.388U	5.95	0.388	ug/Kg
136777-61-2	m,p-Xylene	0.422U	5.95	0.422	ug/Kg
104-51-8	n-Butylbenzene	0.169U	5.95	0.169	ug/Kg
110-54-3	**n-Hexane**	**1.81J**	**5.95**	**0.383**	**ug/Kg**
103-65-1	n-Propylbenzene	0.131U	5.95	0.131	ug/Kg
95-47-6	**o-Xylene**	**1.09J**	**5.95**	**0.171**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.129U	5.95	0.129	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.284U	5.95	0.284	ug/Kg
98-06-6	tert-Butylbenzene	0.164U	5.95	0.164	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.380U	5.95	0.380	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.565U	5.95	0.565	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.616U	5.95	0.616	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	40.7	40.5	ug/Kg	100	59 - 148
1868-53-7	Dibromofluoromethane	40.7	41	ug/Kg	101	80 - 121
2037-26-5	Toluene d8	40.7	41.6	ug/Kg	102	71 - 130
17060-07-0	1,2-Dichloroethane-d4	40.7	43.1	ug/Kg	106	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:27	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:46	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	16.5U	483	16.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	16.2U	483	16.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.3U	483	18.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	15.2U	483	15.2	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.6U	483	32.6	ug/Kg
88-06-2	2,4,6-Trichlorophenol	115U	483	115	ug/Kg
120-83-2	2,4-Dichlorophenol	51.8U	483	51.8	ug/Kg
105-67-9	2,4-Dimethylphenol	341U	483	341	ug/Kg
51-28-5	2,4-Dinitrophenol	222U	483	222	ug/Kg
121-14-2	2,4-Dinitrotoluene	29.3U	483	29.3	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.9U	483	38.9	ug/Kg
91-58-7	2-Chloronaphthalene	15.5U	483	15.5	ug/Kg
95-57-8	2-Chlorophenol	17.0U	483	17.0	ug/Kg
91-57-6	2-Methylnaphthalene	13.1U	483	13.1	ug/Kg
88-74-4	2-Nitroaniline	35.1U	2410	35.1	ug/Kg
88-75-5	2-Nitrophenol	35.9U	483	35.9	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	448U	966	448	ug/Kg
99-09-2	3-Nitroaniline	32.2U	2410	32.2	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	220U	2410	220	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	27.1U	483	27.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	46.1U	483	46.1	ug/Kg
106-47-8	4-Chloroaniline	32.5U	483	32.5	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	27.4U	483	27.4	ug/Kg
100-01-6	4-Nitroaniline	239U	2410	239	ug/Kg
100-02-7	4-Nitrophenol	136U	2410	136	ug/Kg
83-32-9	Acenaphthene	19.2U	483	19.2	ug/Kg
208-96-8	Acenaphthylene	19.2U	483	19.2	ug/Kg
120-12-7	Anthracene	16.7U	483	16.7	ug/Kg
92-87-5	Benzidine	2410U	2410	2410	ug/Kg
56-55-3	Benzo(a)anthracene	37.8U	483	37.8	ug/Kg
50-32-8	Benzo(a)pyrene	18.0U	483	18.0	ug/Kg
205-99-2	Benzo(b)fluoranthene	44.5U	483	44.5	ug/Kg
191-24-2	Benzo(g,h,i)perylene	15.4U	483	15.4	ug/Kg
207-08-9	Benzo(k)fluoranthene	19.6U	483	19.6	ug/Kg
65-85-0	Benzoic acid	99.5U	2410	99.5	ug/Kg
100-51-6	Benzyl alcohol	66.0U	483	66.0	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	37.8U	483	37.8	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	35.6U	483	35.6	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	30.1U	483	30.1	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	28.7U	483	28.7	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 13:46	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.68U	483	8.68	ug/Kg
218-01-9	Chrysene	21.2U	483	21.2	ug/Kg
84-74-2	Di-n-butyl phthalate	19.2U	483	19.2	ug/Kg
117-84-0	Di-n-octyl phthalate	6.50U	483	6.50	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.8U	483	16.8	ug/Kg
132-64-9	Dibenzofuran	15.7U	483	15.7	ug/Kg
84-66-2	Diethyl phthalate	29.7U	483	29.7	ug/Kg
131-11-3	Dimethyl phthalate	20.6U	483	20.6	ug/Kg
206-44-0	Fluoranthene	9.54U	483	9.54	ug/Kg
86-73-7	Fluorene	18.9U	483	18.9	ug/Kg
118-74-1	Hexachlorobenzene	28.0U	483	28.0	ug/Kg
87-68-3	Hexachlorobutadiene	29.3U	483	29.3	ug/Kg
77-47-4	Hexachlorocyclopentadiene	176U	483	176	ug/Kg
67-72-1	Hexachloroethane	23.3U	483	23.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45.2U	483	45.2	ug/Kg
78-59-1	Isophorone	17.0U	483	17.0	ug/Kg
91-20-3	Naphthalene	19.3U	483	19.3	ug/Kg
98-95-3	Nitrobenzene	26.9U	483	26.9	ug/Kg
87-86-5	Pentachlorophenol	184U	2410	184	ug/Kg
85-01-8	Phenanthrene	15.5U	483	15.5	ug/Kg
108-95-2	Phenol	29.0U	483	29.0	ug/Kg
129-00-0	Pyrene	22.4U	483	22.4	ug/Kg
1319-77-3MP	m,p-Cresol	68.2U	483	68.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	22.1U	483	22.1	ug/Kg
86-30-6	n-Nitrosodiphenylamine	15.4U	483	15.4	ug/Kg
95-48-7	o-Cresol	17.1U	483	17.1	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1290	ug/Kg	77	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1360	ug/Kg	82	46 - 122
1718-51-0	Terphenyl-d14	1670	1660	ug/Kg	100	45 - 135
4165-62-2	Phenol-d5	3330	2850	ug/Kg	86	44 - 124
367-12-4	2-Fluorophenol	3330	2760	ug/Kg	83	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2580	ug/Kg	77	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 13:59	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1890U	5850	1890	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1400	ug/Kg	84	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 05:12	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	985U	7580	985	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1550	1560	ug/Kg	100	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 13:59	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2790U	19500	2790	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1670	1350	ug/Kg	81	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:06	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0050U	0.018	0.0050	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:17	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1860**	**23.4**	**1.85**	**mg/kg**
7440-36-0	Antimony	0.35U	7.03	0.35	mg/kg
7440-38-2	**Arsenic**	**0.84B**	**4.68**	**0.26**	**mg/kg**
7440-39-3	**Barium**	**19.8**	**1.17**	**0.032**	**mg/kg**
7440-41-7	**Beryllium**	**0.11B**	**0.59**	**0.0081**	**mg/kg**
7440-43-9	**Cadmium**	**0.24B**	**0.59**	**0.029**	**mg/kg**
7440-47-3	**Chromium**	**2.02**	**1.17**	**0.034**	**mg/kg**
7440-48-4	**Cobalt**	**0.69B**	**1.17**	**0.064**	**mg/kg**
7440-50-8	**Copper**	**2.94**	**1.17**	**0.096**	**mg/kg**
7439-89-6	**Iron**	**1680**	**11.7**	**2.65**	**mg/kg**
7439-92-1	**Lead**	**0.54B**	**1.76**	**0.21**	**mg/kg**
7439-95-4	**Magnesium**	**6230**	**11.7**	**3.92**	**mg/kg**
7439-96-5	**Manganese**	**42.6**	**1.76**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**1.56B**	**4.68**	**0.092**	**mg/kg**
7440-09-7	**Potassium**	**517**	**58.5**	**5.33**	**mg/kg**
7782-49-2	Selenium	0.56U	4.68	0.56	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141208	**AOCU-HA69-2-A**	Solid	07/13/2011 09:25	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:17	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.10U	1.17	0.10	mg/kg
7440-23-5	**Sodium**	**3770**	**117**	**10.3**	**mg/kg**
7440-28-0	Thallium	0.29U	2.34	0.29	mg/kg
7440-62-2	**Vanadium**	**6.04**	**2.34**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**6.10**	**2.34**	**0.97**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:52	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**155000**	**87.1**	**2.67**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:26	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**12.9**	**0.732**	**0.038**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**31.7**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:54	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.235U	5.46	0.235	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.210U	5.46	0.210	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.215U	5.46	0.215	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.187U	5.46	0.187	ug/Kg
75-34-3	1,1-Dichloroethane	0.192U	5.46	0.192	ug/Kg
75-35-4	1,1-Dichloroethene	0.335U	5.46	0.335	ug/Kg
563-58-6	1,1-Dichloropropene	0.216U	5.46	0.216	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.123U	5.46	0.123	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.179U	5.46	0.179	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.158U	5.46	0.158	ug/Kg
95-63-6	**1,2,4-Trimethylbenzene**	**0.313J**	**5.46**	**0.130**	**ug/Kg**
96-12-8	1,2-Dibromo-3-chloropropane	0.761U	5.46	0.761	ug/Kg
106-93-4	1,2-Dibromoethane	0.598U	5.46	0.598	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.277U	5.46	0.277	ug/Kg
107-06-2	1,2-Dichloroethane	0.199U	5.46	0.199	ug/Kg
78-87-5	1,2-Dichloropropane	0.134U	5.46	0.134	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.124U	5.46	0.124	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.154U	5.46	0.154	ug/Kg
142-28-9	1,3-Dichloropropane	0.146U	5.46	0.146	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.155U	5.46	0.155	ug/Kg
544-10-5	1-Chlorohexane	0.160U	5.46	0.160	ug/Kg
594-20-7	2,2-Dichloropropane	0.332U	5.46	0.332	ug/Kg
78-93-3	**2-Butanone**	**5.31J**	**5.46**	**0.693**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.31U	5.46	1.31	ug/Kg
95-49-8	2-Chlorotoluene	0.189U	5.46	0.189	ug/Kg
591-78-6	2-Hexanone	0.772U	5.46	0.772	ug/Kg
106-43-4	4-Chlorotoluene	0.120U	5.46	0.120	ug/Kg
99-87-6	4-Isopropyltoluene	0.093U	5.46	0.093	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.246U	5.46	0.246	ug/Kg
67-64-1	**Acetone**	**8.28J**	**27.3**	**1.18**	**ug/Kg**
75-05-8	Acetonitrile	1.82U	109	1.82	ug/Kg
107-02-8	Acrolein	2.54U	27.3	2.54	ug/Kg
107-13-1	Acrylonitrile	0.633U	27.3	0.633	ug/Kg
107-05-1	Allyl chloride	0.601U	5.46	0.601	ug/Kg
71-43-2	**Benzene**	**6.20**	**5.46**	**0.116**	**ug/Kg**
108-86-1	Bromobenzene	0.160U	5.46	0.160	ug/Kg
74-97-5	Bromochloromethane	0.263U	5.46	0.263	ug/Kg
75-27-4	Bromodichloromethane	0.147U	5.46	0.147	ug/Kg
75-25-2	Bromoform	0.234U	5.46	0.234	ug/Kg
74-83-9	Bromomethane	0.696U	5.46	0.696	ug/Kg
75-15-0	Carbon disulfide	0.394U	5.46	0.394	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:54	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.224U	5.46	0.224	ug/Kg
108-90-7	Chlorobenzene	0.195U	5.46	0.195	ug/Kg
75-00-3	Chloroethane	0.266U	5.46	0.266	ug/Kg
67-66-3	**Chloroform**	**0.838J**	**5.46**	**0.246**	**ug/Kg**
74-87-3	Chloromethane	0.617U	5.46	0.617	ug/Kg
124-48-1	Dibromochloromethane	0.208U	5.46	0.208	ug/Kg
74-95-3	Dibromomethane	0.212U	5.46	0.212	ug/Kg
75-71-8	Dichlorodifluoromethane	0.130U	5.46	0.130	ug/Kg
97-63-2	Ethyl methacrylate	0.470U	5.46	0.470	ug/Kg
100-41-4	Ethylbenzene	0.239U	5.46	0.239	ug/Kg
87-68-3	Hexachlorobutadiene	0.166U	5.46	0.166	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.102U	5.46	0.102	ug/Kg
126-98-7	Methacrylonitrile	0.481U	5.46	0.481	ug/Kg
74-88-4	Methyl iodide	1.34U	5.46	1.34	ug/Kg
80-62-6	Methyl methacrylate	0.872U	5.46	0.872	ug/Kg
75-09-2	Methylene chloride	0.525U	10.9	0.525	ug/Kg
91-20-3	Naphthalene	0.191U	5.46	0.191	ug/Kg
76-01-7	Pentachloroethane	0.892U	5.46	0.892	ug/Kg
107-12-0	Propionitrile	2.77U	5.46	2.77	ug/Kg
100-42-5	Styrene	0.450U	5.46	0.450	ug/Kg
127-18-4	Tetrachloroethene	0.223U	5.46	0.223	ug/Kg
108-88-3	**Toluene**	**6.70**	**5.46**	**0.288**	**ug/Kg**
79-01-6	Trichloroethene	0.190U	5.46	0.190	ug/Kg
75-69-4	Trichlorofluoromethane	0.223U	5.46	0.223	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.218U	5.46	0.218	ug/Kg
108-05-4	Vinyl acetate	0.241U	5.46	0.241	ug/Kg
75-01-4	Vinyl chloride	0.273U	5.46	0.273	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.141U	5.46	0.141	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.356U	5.46	0.356	ug/Kg
136777-61-2	**m,p-Xylene**	**1.10J**	**5.46**	**0.387**	**ug/Kg**
104-51-8	n-Butylbenzene	0.155U	5.46	0.155	ug/Kg
110-54-3	**n-Hexane**	**3.04J**	**5.46**	**0.351**	**ug/Kg**
103-65-1	n-Propylbenzene	0.120U	5.46	0.120	ug/Kg
95-47-6	**o-Xylene**	**1.48J**	**5.46**	**0.157**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.118U	5.46	0.118	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.261U	5.46	0.261	ug/Kg
98-06-6	tert-Butylbenzene	0.151U	5.46	0.151	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.348U	5.46	0.348	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.518U	5.46	0.518	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.565U	5.46	0.565	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	38.8	37.5	ug/Kg	97	59 - 148
1868-53-7	Dibromofluoromethane	38.8	39.6	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	38.8	37.9	ug/Kg	98	71 - 130
17060-07-0	1,2-Dichloroethane-d4	38.8	42.5	ug/Kg	109	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 20:54	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:01	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	15.8U	462	15.8	ug/Kg
95-50-1	1,2-Dichlorobenzene	15.5U	462	15.5	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.5U	462	17.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	14.6U	462	14.6	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.2U	462	31.2	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110U	462	110	ug/Kg
120-83-2	2,4-Dichlorophenol	49.6U	462	49.6	ug/Kg
105-67-9	2,4-Dimethylphenol	326U	462	326	ug/Kg
51-28-5	2,4-Dinitrophenol	213U	462	213	ug/Kg
121-14-2	2,4-Dinitrotoluene	28.0U	462	28.0	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.3U	462	37.3	ug/Kg
91-58-7	2-Chloronaphthalene	14.8U	462	14.8	ug/Kg
95-57-8	2-Chlorophenol	16.2U	462	16.2	ug/Kg
91-57-6	2-Methylnaphthalene	12.6U	462	12.6	ug/Kg
88-74-4	2-Nitroaniline	33.6U	2310	33.6	ug/Kg
88-75-5	2-Nitrophenol	34.3U	462	34.3	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	429U	925	429	ug/Kg
99-09-2	3-Nitroaniline	30.8U	2310	30.8	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	210U	2310	210	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	25.9U	462	25.9	ug/Kg
59-50-7	4-Chloro-3-methylphenol	44.1U	462	44.1	ug/Kg
106-47-8	4-Chloroaniline	31.1U	462	31.1	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	26.2U	462	26.2	ug/Kg
100-01-6	4-Nitroaniline	228U	2310	228	ug/Kg
100-02-7	4-Nitrophenol	130U	2310	130	ug/Kg
83-32-9	Acenaphthene	18.4U	462	18.4	ug/Kg
208-96-8	Acenaphthylene	18.4U	462	18.4	ug/Kg
120-12-7	Anthracene	16.0U	462	16.0	ug/Kg
92-87-5	Benzidine	2310U	2310	2310	ug/Kg
56-55-3	Benzo(a)anthracene	36.1U	462	36.1	ug/Kg
50-32-8	Benzo(a)pyrene	17.2U	462	17.2	ug/Kg
205-99-2	Benzo(b)fluoranthene	42.6U	462	42.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	14.7U	462	14.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	18.8U	462	18.8	ug/Kg
65-85-0	Benzoic acid	95.3U	2310	95.3	ug/Kg
100-51-6	Benzyl alcohol	63.2U	462	63.2	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	36.1U	462	36.1	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	34.0U	462	34.0	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	28.9U	462	28.9	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.5U	462	27.5	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:01	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	8.31U	462	8.31	ug/Kg
218-01-9	Chrysene	20.3U	462	20.3	ug/Kg
84-74-2	Di-n-butyl phthalate	18.4U	462	18.4	ug/Kg
117-84-0	Di-n-octyl phthalate	6.22U	462	6.22	ug/Kg
53-70-3	Dibenz(a,h)anthracene	16.1U	462	16.1	ug/Kg
132-64-9	Dibenzofuran	15.0U	462	15.0	ug/Kg
84-66-2	Diethyl phthalate	28.4U	462	28.4	ug/Kg
131-11-3	Dimethyl phthalate	19.8U	462	19.8	ug/Kg
206-44-0	Fluoranthene	9.13U	462	9.13	ug/Kg
86-73-7	Fluorene	18.1U	462	18.1	ug/Kg
118-74-1	Hexachlorobenzene	26.8U	462	26.8	ug/Kg
87-68-3	Hexachlorobutadiene	28.0U	462	28.0	ug/Kg
77-47-4	Hexachlorocyclopentadiene	168U	462	168	ug/Kg
67-72-1	Hexachloroethane	22.3U	462	22.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	43.3U	462	43.3	ug/Kg
78-59-1	Isophorone	16.2U	462	16.2	ug/Kg
91-20-3	Naphthalene	18.5U	462	18.5	ug/Kg
98-95-3	Nitrobenzene	25.8U	462	25.8	ug/Kg
87-86-5	Pentachlorophenol	177U	2310	177	ug/Kg
85-01-8	Phenanthrene	14.8U	462	14.8	ug/Kg
108-95-2	Phenol	27.7U	462	27.7	ug/Kg
129-00-0	Pyrene	21.4U	462	21.4	ug/Kg
1319-77-3MP	m,p-Cresol	65.3U	462	65.3	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	21.2U	462	21.2	ug/Kg
86-30-6	n-Nitrosodiphenylamine	14.7U	462	14.7	ug/Kg
95-48-7	o-Cresol	16.4U	462	16.4	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1320	ug/Kg	79	41 - 123
321-60-8	2-Fluorobiphenyl	1660	1400	ug/Kg	84	46 - 122
1718-51-0	Terphenyl-d14	1660	1530	ug/Kg	92	45 - 135
4165-62-2	Phenol-d5	3320	2920	ug/Kg	88	44 - 124
367-12-4	2-Fluorophenol	3320	2910	ug/Kg	88	45 - 114
118-79-6	2,4,6-Tribromophenol	3320	2960	ug/Kg	89	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 14:16	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1780U	5530	1780	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1340	ug/Kg	82	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 05:36	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	780U	6000	780	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1280	1280	ug/Kg	100	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 14:16	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2640U	18400	2640	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1640	1290	ug/Kg	79	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:07	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0047U	0.017	0.0047	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:22	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**1410**	**22.5**	**1.77**	**mg/kg**
7440-36-0	Antimony	0.33U	6.75	0.33	mg/kg
7440-38-2	Arsenic	0.25U	4.50	0.25	mg/kg
7440-39-3	**Barium**	**25.3**	**1.12**	**0.031**	**mg/kg**
7440-41-7	**Beryllium**	**0.074B**	**0.56**	**0.0078**	**mg/kg**
7440-43-9	**Cadmium**	**0.27B**	**0.56**	**0.027**	**mg/kg**
7440-47-3	**Chromium**	**1.63**	**1.12**	**0.033**	**mg/kg**
7440-48-4	**Cobalt**	**0.61B**	**1.12**	**0.061**	**mg/kg**
7440-50-8	**Copper**	**1.84**	**1.12**	**0.092**	**mg/kg**
7439-89-6	**Iron**	**1350**	**11.2**	**2.55**	**mg/kg**
7439-92-1	**Lead**	**0.34B**	**1.69**	**0.20**	**mg/kg**
7439-95-4	**Magnesium**	**3660**	**11.2**	**3.77**	**mg/kg**
7439-96-5	**Manganese**	**24.5**	**1.69**	**0.11**	**mg/kg**
7440-02-0	**Nickel**	**1.21B**	**4.50**	**0.088**	**mg/kg**
7440-09-7	**Potassium**	**383**	**56.2**	**5.12**	**mg/kg**
7782-49-2	Selenium	0.54U	4.50	0.54	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141209	**AOCU-HA71-2**	Solid	07/13/2011 09:55	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:22	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.098U	1.12	0.098	mg/kg
7440-23-5	**Sodium**	**2540**	**112**	**9.87**	**mg/kg**
7440-28-0	Thallium	0.28U	2.25	0.28	mg/kg
7440-62-2	**Vanadium**	**4.48**	**2.25**	**0.14**	**mg/kg**
7440-66-6	**Zinc**	**4.68**	**2.25**	**0.93**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 16:58	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**129000**	**84.3**	**2.59**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:30	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**9.33**	**0.703**	**0.037**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**28.9**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:20	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.218U	5.08	0.218	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.195U	5.08	0.195	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.200U	5.08	0.200	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.174U	5.08	0.174	ug/Kg
75-34-3	1,1-Dichloroethane	0.179U	5.08	0.179	ug/Kg
75-35-4	1,1-Dichloroethene	0.312U	5.08	0.312	ug/Kg
563-58-6	1,1-Dichloropropene	0.201U	5.08	0.201	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.115U	5.08	0.115	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.167U	5.08	0.167	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.147U	5.08	0.147	ug/Kg
95-63-6	**1,2,4-Trimethylbenzene**	**0.750J**	**5.08**	**0.121**	**ug/Kg**
96-12-8	1,2-Dibromo-3-chloropropane	0.708U	5.08	0.708	ug/Kg
106-93-4	1,2-Dibromoethane	0.557U	5.08	0.557	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.258U	5.08	0.258	ug/Kg
107-06-2	1,2-Dichloroethane	0.185U	5.08	0.185	ug/Kg
78-87-5	1,2-Dichloropropane	0.125U	5.08	0.125	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.116U	5.08	0.116	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.143U	5.08	0.143	ug/Kg
142-28-9	1,3-Dichloropropane	0.136U	5.08	0.136	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.144U	5.08	0.144	ug/Kg
544-10-5	1-Chlorohexane	0.149U	5.08	0.149	ug/Kg
594-20-7	2,2-Dichloropropane	0.309U	5.08	0.309	ug/Kg
78-93-3	**2-Butanone**	**4.90J**	**5.08**	**0.645**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.22U	5.08	1.22	ug/Kg
95-49-8	2-Chlorotoluene	0.176U	5.08	0.176	ug/Kg
591-78-6	2-Hexanone	0.718U	5.08	0.718	ug/Kg
106-43-4	4-Chlorotoluene	0.112U	5.08	0.112	ug/Kg
99-87-6	4-Isopropyltoluene	0.086U	5.08	0.086	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.229U	5.08	0.229	ug/Kg
67-64-1	**Acetone**	**4.47J**	**25.4**	**1.10**	**ug/Kg**
75-05-8	Acetonitrile	1.70U	102	1.70	ug/Kg
107-02-8	Acrolein	2.37U	25.4	2.37	ug/Kg
107-13-1	Acrylonitrile	0.589U	25.4	0.589	ug/Kg
107-05-1	Allyl chloride	0.560U	5.08	0.560	ug/Kg
71-43-2	**Benzene**	**6.29**	**5.08**	**0.108**	**ug/Kg**
108-86-1	Bromobenzene	0.149U	5.08	0.149	ug/Kg
74-97-5	Bromochloromethane	0.245U	5.08	0.245	ug/Kg
75-27-4	Bromodichloromethane	0.137U	5.08	0.137	ug/Kg
75-25-2	Bromoform	0.217U	5.08	0.217	ug/Kg
74-83-9	Bromomethane	0.648U	5.08	0.648	ug/Kg
75-15-0	Carbon disulfide	0.367U	5.08	0.367	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:20	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.208U	5.08	0.208	ug/Kg
108-90-7	Chlorobenzene	0.182U	5.08	0.182	ug/Kg
75-00-3	Chloroethane	0.248U	5.08	0.248	ug/Kg
67-66-3	**Chloroform**	**0.679J**	**5.08**	**0.229**	**ug/Kg**
74-87-3	Chloromethane	0.574U	5.08	0.574	ug/Kg
124-48-1	Dibromochloromethane	0.194U	5.08	0.194	ug/Kg
74-95-3	Dibromomethane	0.197U	5.08	0.197	ug/Kg
75-71-8	Dichlorodifluoromethane	0.121U	5.08	0.121	ug/Kg
97-63-2	Ethyl methacrylate	0.438U	5.08	0.438	ug/Kg
100-41-4	Ethylbenzene	0.222U	5.08	0.222	ug/Kg
87-68-3	Hexachlorobutadiene	0.154U	5.08	0.154	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.095U	5.08	0.095	ug/Kg
126-98-7	Methacrylonitrile	0.448U	5.08	0.448	ug/Kg
74-88-4	Methyl iodide	1.25U	5.08	1.25	ug/Kg
80-62-6	Methyl methacrylate	0.811U	5.08	0.811	ug/Kg
75-09-2	Methylene chloride	0.488U	10.2	0.488	ug/Kg
91-20-3	Naphthalene	0.178U	5.08	0.178	ug/Kg
76-01-7	Pentachloroethane	0.830U	5.08	0.830	ug/Kg
107-12-0	Propionitrile	2.58U	5.08	2.58	ug/Kg
100-42-5	Styrene	0.418U	5.08	0.418	ug/Kg
127-18-4	Tetrachloroethene	0.207U	5.08	0.207	ug/Kg
108-88-3	**Toluene**	**6.61**	**5.08**	**0.268**	**ug/Kg**
79-01-6	Trichloroethene	0.177U	5.08	0.177	ug/Kg
75-69-4	Trichlorofluoromethane	0.207U	5.08	0.207	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.203U	5.08	0.203	ug/Kg
108-05-4	Vinyl acetate	0.224U	5.08	0.224	ug/Kg
75-01-4	Vinyl chloride	0.254U	5.08	0.254	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.131U	5.08	0.131	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.331U	5.08	0.331	ug/Kg
136777-61-2	**m,p-Xylene**	**1.80J**	**5.08**	**0.361**	**ug/Kg**
104-51-8	n-Butylbenzene	0.144U	5.08	0.144	ug/Kg
110-54-3	**n-Hexane**	**3.42J**	**5.08**	**0.327**	**ug/Kg**
103-65-1	n-Propylbenzene	0.112U	5.08	0.112	ug/Kg
95-47-6	**o-Xylene**	**1.56J**	**5.08**	**0.146**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.110U	5.08	0.110	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.243U	5.08	0.243	ug/Kg
98-06-6	tert-Butylbenzene	0.140U	5.08	0.140	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.324U	5.08	0.324	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.482U	5.08	0.482	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.526U	5.08	0.526	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	38.9	38.5	ug/Kg	99	59 - 148
1868-53-7	Dibromofluoromethane	38.9	39.1	ug/Kg	100	80 - 121
2037-26-5	Toluene d8	38.9	39	ug/Kg	100	71 - 130
17060-07-0	1,2-Dichloroethane-d4	38.9	41.6	ug/Kg	107	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:20	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:16	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	14.7U	430	14.7	ug/Kg
95-50-1	1,2-Dichlorobenzene	14.5U	430	14.5	ug/Kg
541-73-1	1,3-Dichlorobenzene	16.3U	430	16.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	13.6U	430	13.6	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1U	430	29.1	ug/Kg
88-06-2	2,4,6-Trichlorophenol	103U	430	103	ug/Kg
120-83-2	2,4-Dichlorophenol	46.2U	430	46.2	ug/Kg
105-67-9	2,4-Dimethylphenol	304U	430	304	ug/Kg
51-28-5	2,4-Dinitrophenol	198U	430	198	ug/Kg
121-14-2	2,4-Dinitrotoluene	26.1U	430	26.1	ug/Kg
606-20-2	2,6-Dinitrotoluene	34.7U	430	34.7	ug/Kg
91-58-7	2-Chloronaphthalene	13.8U	430	13.8	ug/Kg
95-57-8	2-Chlorophenol	15.1U	430	15.1	ug/Kg
91-57-6	2-Methylnaphthalene	11.7U	430	11.7	ug/Kg
88-74-4	2-Nitroaniline	31.3U	2150	31.3	ug/Kg
88-75-5	2-Nitrophenol	31.9U	430	31.9	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	399U	861	399	ug/Kg
99-09-2	3-Nitroaniline	28.7U	2150	28.7	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	196U	2150	196	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	24.1U	430	24.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	41.1U	430	41.1	ug/Kg
106-47-8	4-Chloroaniline	28.9U	430	28.9	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	24.4U	430	24.4	ug/Kg
100-01-6	4-Nitroaniline	213U	2150	213	ug/Kg
100-02-7	4-Nitrophenol	121U	2150	121	ug/Kg
83-32-9	Acenaphthene	17.1U	430	17.1	ug/Kg
208-96-8	Acenaphthylene	17.1U	430	17.1	ug/Kg
120-12-7	Anthracene	14.9U	430	14.9	ug/Kg
92-87-5	Benzidine	2150U	2150	2150	ug/Kg
56-55-3	Benzo(a)anthracene	33.6U	430	33.6	ug/Kg
50-32-8	Benzo(a)pyrene	16.0U	430	16.0	ug/Kg
205-99-2	Benzo(b)fluoranthene	39.6U	430	39.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.7U	430	13.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	17.5U	430	17.5	ug/Kg
65-85-0	Benzoic acid	88.7U	2150	88.7	ug/Kg
100-51-6	Benzyl alcohol	58.8U	430	58.8	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	33.6U	430	33.6	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	31.7U	430	31.7	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	26.9U	430	26.9	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	25.6U	430	25.6	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:16	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	7.73U	430	7.73	ug/Kg
218-01-9	Chrysene	18.9U	430	18.9	ug/Kg
84-74-2	Di-n-butyl phthalate	17.1U	430	17.1	ug/Kg
117-84-0	Di-n-octyl phthalate	5.79U	430	5.79	ug/Kg
53-70-3	Dibenz(a,h)anthracene	15.0U	430	15.0	ug/Kg
132-64-9	Dibenzofuran	14.0U	430	14.0	ug/Kg
84-66-2	Diethyl phthalate	26.5U	430	26.5	ug/Kg
131-11-3	Dimethyl phthalate	18.4U	430	18.4	ug/Kg
206-44-0	Fluoranthene	8.50U	430	8.50	ug/Kg
86-73-7	Fluorene	16.8U	430	16.8	ug/Kg
118-74-1	Hexachlorobenzene	24.9U	430	24.9	ug/Kg
87-68-3	Hexachlorobutadiene	26.1U	430	26.1	ug/Kg
77-47-4	Hexachlorocyclopentadiene	156U	430	156	ug/Kg
67-72-1	Hexachloroethane	20.7U	430	20.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	40.3U	430	40.3	ug/Kg
78-59-1	Isophorone	15.1U	430	15.1	ug/Kg
91-20-3	Naphthalene	17.2U	430	17.2	ug/Kg
98-95-3	Nitrobenzene	24.0U	430	24.0	ug/Kg
87-86-5	Pentachlorophenol	164U	2150	164	ug/Kg
85-01-8	Phenanthrene	13.8U	430	13.8	ug/Kg
108-95-2	Phenol	25.8U	430	25.8	ug/Kg
129-00-0	Pyrene	20.0U	430	20.0	ug/Kg
1319-77-3MP	m,p-Cresol	60.8U	430	60.8	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	19.7U	430	19.7	ug/Kg
86-30-6	n-Nitrosodiphenylamine	13.7U	430	13.7	ug/Kg
95-48-7	o-Cresol	15.3U	430	15.3	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1310	ug/Kg	79	41 - 123
321-60-8	2-Fluorobiphenyl	1670	1380	ug/Kg	83	46 - 122
1718-51-0	Terphenyl-d14	1670	1440	ug/Kg	86	45 - 135
4165-62-2	Phenol-d5	3330	2850	ug/Kg	86	44 - 124
367-12-4	2-Fluorophenol	3330	2840	ug/Kg	85	45 - 114
118-79-6	2,4,6-Tribromophenol	3330	2990	ug/Kg	90	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 14:34	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1680U	5200	1680	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1470	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 06:00	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	803U	6170	803	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1420	1400	ug/Kg	99	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 14:34	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2480U	17300	2480	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1410	ug/Kg	85	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:09	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0045U	0.016	0.0045	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:28	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**7410**	**20.7**	**1.63**	**mg/kg**
7440-36-0	**Antimony**	**0.31B**	**6.21**	**0.31**	**mg/kg**
7440-38-2	**Arsenic**	**2.31B**	**4.14**	**0.23**	**mg/kg**
7440-39-3	**Barium**	**66.3**	**1.03**	**0.028**	**mg/kg**
7440-41-7	**Beryllium**	**0.66**	**0.52**	**0.0072**	**mg/kg**
7440-43-9	**Cadmium**	**0.38B**	**0.52**	**0.025**	**mg/kg**
7440-47-3	**Chromium**	**9.74**	**1.03**	**0.030**	**mg/kg**
7440-48-4	**Cobalt**	**4.30**	**1.03**	**0.056**	**mg/kg**
7440-50-8	**Copper**	**7.67**	**1.03**	**0.085**	**mg/kg**
7439-89-6	**Iron**	**9590**	**10.3**	**2.34**	**mg/kg**
7439-92-1	**Lead**	**6.54**	**1.55**	**0.18**	**mg/kg**
7439-95-4	**Magnesium**	**6180**	**10.3**	**3.47**	**mg/kg**
7439-96-5	**Manganese**	**233**	**1.55**	**0.10**	**mg/kg**
7440-02-0	**Nickel**	**10.5**	**4.14**	**0.081**	**mg/kg**
7440-09-7	**Potassium**	**1830**	**51.7**	**4.71**	**mg/kg**
7782-49-2	**Selenium**	**0.51B**	**4.14**	**0.50**	**mg/kg**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141210	**AOCU-HA84-10**	Solid	07/13/2011 11:05	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:28	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.090U	1.03	0.090	mg/kg
7440-23-5	**Sodium**	**4490**	**103**	**9.08**	**mg/kg**
7440-28-0	**Thallium**	**0.37B**	**2.07**	**0.26**	**mg/kg**
7440-62-2	**Vanadium**	**20.4**	**2.07**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**31.0**	**2.07**	**0.86**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 17:04	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**119000**	**78.2**	**2.40**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	5	07/20/2011 10:40	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**24.9**	**3.26**	**0.170**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**23.3**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:47	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.211U	4.92	0.211	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.189U	4.92	0.189	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.194U	4.92	0.194	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.168U	4.92	0.168	ug/Kg
75-34-3	1,1-Dichloroethane	0.173U	4.92	0.173	ug/Kg
75-35-4	1,1-Dichloroethene	0.302U	4.92	0.302	ug/Kg
563-58-6	1,1-Dichloropropene	0.195U	4.92	0.195	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.111U	4.92	0.111	ug/Kg
96-18-4	1,2,3-Trichloropropane	0.161U	4.92	0.161	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.143U	4.92	0.143	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.117U	4.92	0.117	ug/Kg
96-12-8	1,2-Dibromo-3-chloropropane	0.686U	4.92	0.686	ug/Kg
106-93-4	1,2-Dibromoethane	0.539U	4.92	0.539	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.250U	4.92	0.250	ug/Kg
107-06-2	1,2-Dichloroethane	0.179U	4.92	0.179	ug/Kg
78-87-5	1,2-Dichloropropane	0.121U	4.92	0.121	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.112U	4.92	0.112	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.139U	4.92	0.139	ug/Kg
142-28-9	1,3-Dichloropropane	0.132U	4.92	0.132	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.140U	4.92	0.140	ug/Kg
544-10-5	1-Chlorohexane	0.145U	4.92	0.145	ug/Kg
594-20-7	2,2-Dichloropropane	0.299U	4.92	0.299	ug/Kg
78-93-3	**2-Butanone**	**6.29**	**4.92**	**0.625**	**ug/Kg**
110-75-8	2-Chloroethylvinyl ether	1.18U	4.92	1.18	ug/Kg
95-49-8	2-Chlorotoluene	0.170U	4.92	0.170	ug/Kg
591-78-6	2-Hexanone	0.695U	4.92	0.695	ug/Kg
106-43-4	4-Chlorotoluene	0.108U	4.92	0.108	ug/Kg
99-87-6	4-Isopropyltoluene	0.084U	4.92	0.084	ug/Kg
108-10-1	4-Methyl-2-pentanone	0.221U	4.92	0.221	ug/Kg
67-64-1	**Acetone**	**16.9J**	**24.6**	**1.06**	**ug/Kg**
75-05-8	Acetonitrile	1.64U	98.4	1.64	ug/Kg
107-02-8	Acrolein	2.29U	24.6	2.29	ug/Kg
107-13-1	Acrylonitrile	0.571U	24.6	0.571	ug/Kg
107-05-1	Allyl chloride	0.542U	4.92	0.542	ug/Kg
71-43-2	**Benzene**	**2.59J**	**4.92**	**0.104**	**ug/Kg**
108-86-1	Bromobenzene	0.145U	4.92	0.145	ug/Kg
74-97-5	Bromochloromethane	0.237U	4.92	0.237	ug/Kg
75-27-4	Bromodichloromethane	0.133U	4.92	0.133	ug/Kg
75-25-2	Bromoform	0.211U	4.92	0.211	ug/Kg
74-83-9	Bromomethane	0.628U	4.92	0.628	ug/Kg
75-15-0	Carbon disulfide	0.355U	4.92	0.355	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:47	RJU	461425

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.202U	4.92	0.202	ug/Kg
108-90-7	Chlorobenzene	0.176U	4.92	0.176	ug/Kg
75-00-3	Chloroethane	0.240U	4.92	0.240	ug/Kg
67-66-3	**Chloroform**	**0.772J**	**4.92**	**0.221**	**ug/Kg**
74-87-3	Chloromethane	0.556U	4.92	0.556	ug/Kg
124-48-1	Dibromochloromethane	0.188U	4.92	0.188	ug/Kg
74-95-3	Dibromomethane	0.191U	4.92	0.191	ug/Kg
75-71-8	Dichlorodifluoromethane	0.117U	4.92	0.117	ug/Kg
97-63-2	Ethyl methacrylate	0.424U	4.92	0.424	ug/Kg
100-41-4	Ethylbenzene	0.215U	4.92	0.215	ug/Kg
87-68-3	Hexachlorobutadiene	0.150U	4.92	0.150	ug/Kg
98-82-8	Isopropylbenzene (Cumene)	0.092U	4.92	0.092	ug/Kg
126-98-7	Methacrylonitrile	0.434U	4.92	0.434	ug/Kg
74-88-4	Methyl iodide	1.21U	4.92	1.21	ug/Kg
80-62-6	Methyl methacrylate	0.786U	4.92	0.786	ug/Kg
75-09-2	Methylene chloride	0.473U	9.84	0.473	ug/Kg
91-20-3	Naphthalene	0.172U	4.92	0.172	ug/Kg
76-01-7	Pentachloroethane	0.804U	4.92	0.804	ug/Kg
107-12-0	Propionitrile	2.50U	4.92	2.50	ug/Kg
100-42-5	Styrene	0.405U	4.92	0.405	ug/Kg
127-18-4	Tetrachloroethene	0.201U	4.92	0.201	ug/Kg
108-88-3	**Toluene**	**2.44J**	**4.92**	**0.260**	**ug/Kg**
79-01-6	Trichloroethene	0.171U	4.92	0.171	ug/Kg
75-69-4	Trichlorofluoromethane	0.201U	4.92	0.201	ug/Kg
76-13-1	Trichlorotrifluoroethane	0.197U	4.92	0.197	ug/Kg
108-05-4	Vinyl acetate	0.217U	4.92	0.217	ug/Kg
75-01-4	Vinyl chloride	0.246U	4.92	0.246	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.127U	4.92	0.127	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.321U	4.92	0.321	ug/Kg
136777-61-2	m,p-Xylene	0.349U	4.92	0.349	ug/Kg
104-51-8	n-Butylbenzene	0.140U	4.92	0.140	ug/Kg
110-54-3	**n-Hexane**	**1.46J**	**4.92**	**0.317**	**ug/Kg**
103-65-1	n-Propylbenzene	0.108U	4.92	0.108	ug/Kg
95-47-6	**o-Xylene**	**0.953J**	**4.92**	**0.142**	**ug/Kg**
135-98-8	sec-Butylbenzene	0.106U	4.92	0.106	ug/Kg
1634-04-4	tert-Butyl methyl ether (MTBE)	0.235U	4.92	0.235	ug/Kg
98-06-6	tert-Butylbenzene	0.136U	4.92	0.136	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.314U	4.92	0.314	ug/Kg
10061-02-6	trans-1,3-Dichloropropene	0.467U	4.92	0.467	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.510U	4.92	0.510	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	38.8	38.1	ug/Kg	98	59 - 148
1868-53-7	Dibromofluoromethane	38.8	39.4	ug/Kg	102	80 - 121
2037-26-5	Toluene d8	38.8	38	ug/Kg	98	71 - 130
17060-07-0	1,2-Dichloroethane-d4	38.8	42	ug/Kg	108	77 - 123

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 21:47	RJU	461549

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/Kg
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/Kg

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:32	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	14.1U	412	14.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	13.9U	412	13.9	ug/Kg
541-73-1	1,3-Dichlorobenzene	15.6U	412	15.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	13.0U	412	13.0	ug/Kg
95-95-4	2,4,5-Trichlorophenol	27.8U	412	27.8	ug/Kg
88-06-2	2,4,6-Trichlorophenol	98.2U	412	98.2	ug/Kg
120-83-2	2,4-Dichlorophenol	44.2U	412	44.2	ug/Kg
105-67-9	2,4-Dimethylphenol	291U	412	291	ug/Kg
51-28-5	2,4-Dinitrophenol	190U	412	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	25.0U	412	25.0	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.2U	412	33.2	ug/Kg
91-58-7	2-Chloronaphthalene	13.2U	412	13.2	ug/Kg
95-57-8	2-Chlorophenol	14.5U	412	14.5	ug/Kg
91-57-6	2-Methylnaphthalene	11.2U	412	11.2	ug/Kg
88-74-4	2-Nitroaniline	30.0U	2060	30.0	ug/Kg
88-75-5	2-Nitrophenol	30.6U	412	30.6	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	382U	824	382	ug/Kg
99-09-2	3-Nitroaniline	27.5U	2060	27.5	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	187U	2060	187	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	23.1U	412	23.1	ug/Kg
59-50-7	4-Chloro-3-methylphenol	39.3U	412	39.3	ug/Kg
106-47-8	4-Chloroaniline	27.7U	412	27.7	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	23.3U	412	23.3	ug/Kg
100-01-6	4-Nitroaniline	203U	2060	203	ug/Kg
100-02-7	4-Nitrophenol	116U	2060	116	ug/Kg
83-32-9	Acenaphthene	16.4U	412	16.4	ug/Kg
208-96-8	Acenaphthylene	16.4U	412	16.4	ug/Kg
120-12-7	Anthracene	14.2U	412	14.2	ug/Kg
92-87-5	Benzidine	2060U	2060	2060	ug/Kg
56-55-3	Benzo(a)anthracene	32.2U	412	32.2	ug/Kg
50-32-8	Benzo(a)pyrene	15.4U	412	15.4	ug/Kg
205-99-2	Benzo(b)fluoranthene	37.9U	412	37.9	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.1U	412	13.1	ug/Kg
207-08-9	Benzo(k)fluoranthene	16.7U	412	16.7	ug/Kg
65-85-0	Benzoic acid	84.9U	2060	84.9	ug/Kg
100-51-6	Benzyl alcohol	56.3U	412	56.3	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	32.2U	412	32.2	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	30.3U	412	30.3	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	25.7U	412	25.7	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	24.5U	412	24.5	ug/Kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 15:18	460889	3550B	1	07/20/2011 14:32	JEW	461414

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	7.40U	412	7.40	ug/Kg
218-01-9	Chrysene	18.1U	412	18.1	ug/Kg
84-74-2	Di-n-butyl phthalate	16.4U	412	16.4	ug/Kg
117-84-0	Di-n-octyl phthalate	5.54U	412	5.54	ug/Kg
53-70-3	Dibenz(a,h)anthracene	14.4U	412	14.4	ug/Kg
132-64-9	Dibenzofuran	13.4U	412	13.4	ug/Kg
84-66-2	Diethyl phthalate	25.3U	412	25.3	ug/Kg
131-11-3	Dimethyl phthalate	17.6U	412	17.6	ug/Kg
206-44-0	Fluoranthene	8.14U	412	8.14	ug/Kg
86-73-7	Fluorene	16.1U	412	16.1	ug/Kg
118-74-1	Hexachlorobenzene	23.8U	412	23.8	ug/Kg
87-68-3	Hexachlorobutadiene	25.0U	412	25.0	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150U	412	150	ug/Kg
67-72-1	Hexachloroethane	19.8U	412	19.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.6U	412	38.6	ug/Kg
78-59-1	Isophorone	14.5U	412	14.5	ug/Kg
91-20-3	Naphthalene	16.5U	412	16.5	ug/Kg
98-95-3	Nitrobenzene	23.0U	412	23.0	ug/Kg
87-86-5	Pentachlorophenol	157U	2060	157	ug/Kg
85-01-8	Phenanthrene	13.2U	412	13.2	ug/Kg
108-95-2	Phenol	24.7U	412	24.7	ug/Kg
129-00-0	Pyrene	19.1U	412	19.1	ug/Kg
1319-77-3MP	m,p-Cresol	58.2U	412	58.2	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	18.8U	412	18.8	ug/Kg
86-30-6	n-Nitrosodiphenylamine	13.1U	412	13.1	ug/Kg
95-48-7	o-Cresol	14.6U	412	14.6	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	1290	ug/Kg	79	41 - 123
321-60-8	2-Fluorobiphenyl	1640	1360	ug/Kg	83	46 - 122
1718-51-0	Terphenyl-d14	1640	1610	ug/Kg	98	45 - 135
4165-62-2	Phenol-d5	3280	2860	ug/Kg	87	44 - 124
367-12-4	2-Fluorophenol	3280	2820	ug/Kg	86	45 - 114
118-79-6	2,4,6-Tribromophenol	3280	2580	ug/Kg	79	50 - 128

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460890	3550B	1	07/18/2011 14:52	DLB	461457

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	1630U	5060	1630	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1460	ug/Kg	88	67 - 120

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/20/2011 06:24	BMR	461327

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	665U	5120	665	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	1210	1220	ug/Kg	101	47 - 164

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/17/2011 00:15	460891	3550B	1	07/18/2011 14:52	DLB	461458

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	2410U	16800	2410	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	1660	1400	ug/Kg	84	67 - 120

SW-846 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 15:00	460867	SW-846 7471B	1	07/15/2011 12:11	KAW	460921

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.0043U	0.015	0.0043	mg/kg

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:35	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	**Aluminum**	**3330**	**20.3**	**1.60**	**mg/kg**
7440-36-0	**Antimony**	**0.76B**	**6.09**	**0.30**	**mg/kg**
7440-38-2	**Arsenic**	**0.99B**	**4.06**	**0.22**	**mg/kg**
7440-39-3	**Barium**	**38.0**	**1.02**	**0.028**	**mg/kg**
7440-41-7	**Beryllium**	**0.17B**	**0.51**	**0.0070**	**mg/kg**
7440-43-9	**Cadmium**	**0.21B**	**0.51**	**0.025**	**mg/kg**
7440-47-3	**Chromium**	**3.82**	**1.02**	**0.029**	**mg/kg**
7440-48-4	**Cobalt**	**1.55**	**1.02**	**0.055**	**mg/kg**
7440-50-8	**Copper**	**3.29**	**1.02**	**0.083**	**mg/kg**
7439-89-6	**Iron**	**3500**	**10.2**	**2.30**	**mg/kg**
7439-92-1	**Lead**	**1.97**	**1.52**	**0.18**	**mg/kg**
7439-95-4	**Magnesium**	**5060**	**10.2**	**3.40**	**mg/kg**
7439-96-5	**Manganese**	**80.1**	**1.52**	**0.099**	**mg/kg**
7440-02-0	**Nickel**	**3.46B**	**4.06**	**0.080**	**mg/kg**
7440-09-7	**Potassium**	**968**	**50.8**	**4.62**	**mg/kg**
7782-49-2	Selenium	0.49U	4.06	0.49	mg/kg

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141211	**AOCU-HA91-2**	Solid	07/13/2011 11:45	07/14/2011 08:55

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/14/2011 14:30	460866	SW-846 3050B	2	07/19/2011 20:35	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.089U	1.02	0.089	mg/kg
7440-23-5	**Sodium**	**7620**	**102**	**8.91**	**mg/kg**
7440-28-0	Thallium	0.25U	2.03	0.25	mg/kg
7440-62-2	**Vanadium**	**9.38**	**2.03**	**0.13**	**mg/kg**
7440-66-6	**Zinc**	**10.7**	**2.03**	**0.84**	**mg/kg**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2011 14:00	461468	SW-846 3050B	2	07/21/2011 17:11	BNB	461568

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**118000**	**75.5**	**2.32**	**mg/kg**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	1	07/20/2011 10:32	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**1.63**	**0.634**	**0.033**	**mg/kg-N**

SM 2540G Dry Weight

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/14/2011 14:25	DJH	460913

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	**Total Moisture**	**21.2**	**0.010**	**0.010**	**%**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141212	**TRIP BLANK**	Water	07/13/2011 11:05	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:57	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141212	**TRIP BLANK**	Water	07/13/2011 11:05	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 11:57	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.8	ug/L	102	84 - 120
1868-53-7	Dibromofluoromethane	50	53	ug/L	106	87 - 116
2037-26-5	Toluene d8	50	43.5	ug/L	87	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141213	TRIP BLANK	Water	07/12/2011 13:00	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 12:21	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107141213	TRIP BLANK	Water	07/12/2011 13:00	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 12:21	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	52.6	ug/L	105	87 - 116
2037-26-5	Toluene d8	50	43.1	ug/L	86	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	52.5	105	59 - 134
107-02-8	Acrolein	2.49U	2.49	250	367	147	33 - 157
107-13-1	Acrylonitrile	1.62U	1.62	250	266	106	62 - 124
74-97-5	Bromochloromethane	0.238U	0.238	50.0	62.2	**124***	78 - 112
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	58.0	116	76 - 116
75-25-2	Bromoform	0.278U	0.278	50.0	52.3	105	68 - 128
74-83-9	Bromomethane	0.276U	0.276	50.0	39.3	79	55 - 151
75-15-0	Carbon disulfide	0.190U	0.190	50.0	61.1	122	67 - 147
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	60.5	121	74 - 139
75-00-3	Chloroethane	0.279U	0.279	50.0	56.8	114	54 - 166
136777-61-2	m,p-Xylene	0.099U	0.099	100	98.2	98	83 - 121
67-66-3	Chloroform	0.062U	0.062	50.0	56.1	112	85 - 123
74-87-3	Chloromethane	0.076U	0.076	50.0	52.8	106	55 - 173
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	52.5	105	74 - 116
74-95-3	Dibromomethane	0.197U	0.197	50.0	58.8	**118***	81 - 116
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	56.2	112	34 - 158
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	59.0	118	82 - 127
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.4	111	76 - 122
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	59.7	**119***	81 - 114
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	57.3	115	82 - 126
75-09-2	Methylene chloride	0.102U	0.102	50.0	53.3	107	69 - 125
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	58.4	117	81 - 120
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	59.3	119	83 - 119
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.6	101	87 - 123
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.6	101	87 - 118
97-63-2	Ethyl methacrylate	0.340U	0.340				
591-78-6	2-Hexanone	0.302U	0.302	50.0	53.4	107	58 - 125
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.0	104	87 - 131
78-93-3	2-Butanone	0.235U	0.235	50.0	61.8	124	61 - 127
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	57.4	115	62 - 125
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.6	103	86 - 125
100-42-5	Styrene	0.058U	0.058	50.0	51.0	102	78 - 118

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	54.4	109	80 - 131
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.0	102	81 - 119
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	51.3	103	71 - 120
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	52.8	106	68 - 123
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	59.0	118	79 - 133
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	50.1	100	80 - 114
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	57.3	115	66 - 156
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	50.1	100	77 - 115
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.4	99	82 - 120
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	50.6	101	83 - 123
75-01-4	Vinyl chloride	0.104U	0.104	50.0	58.4	117	57 - 153
95-47-6	o-Xylene	0.077U	0.077	50.0	49.2	98	83 - 121
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	50.4	101	61 - 118
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 115
80-62-6	Methyl methacrylate	0.606U	0.606				
107-12-0	Propionitrile	3.06U	3.06				
108-05-4	Vinyl acetate	0.197U	0.197	50.0	49.3	99	38 - 159
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	57.1	114	75 - 116
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	52.3	105	83 - 125
110-54-3	n-Hexane	0.126U	0.126	50.0	69.9	**140***	71 - 134
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	49.9	100	51 - 137
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	56.9	114	77 - 138
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	61.0	122	74 - 139
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	61.5	123	87 - 127
110-75-8	2-Chloroethylvinyl ether	1.00U	1.00	50.0	59.2	118	63 - 125
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	49.5	99	81 - 113
108-86-1	Bromobenzene	0.095U	0.095	50.0	50.5	101	83 - 115
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	50.0	100	81 - 121
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	49.0	98	84 - 120
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	58.3	117	83 - 126
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	51.6	103	86 - 127
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	86 - 115
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	51.8	104	87 - 113

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062		LCS461062		
Prep Batch N/A		**GCAL ID**	969136		969137		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/16/2011 09:00		07/16/2011 06:52		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	50.2	100	84 - 124
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	53.2	106	85 - 115
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	54.2	108	71 - 133
91-20-3	Naphthalene	0.175U	0.175	50.0	49.4	99	59 - 125
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	52.5	105	64 - 126
75-05-8	Acetonitrile	5.04U	5.04				
107-05-1	Allyl chloride	0.343U	0.343				
544-10-5	1-Chlorohexane	0.139U	0.139	50.0	53.8	108	87 - 128
76-01-7	Pentachloroethane	1.87U	1.87				
126-98-7	Methacrylonitrile	0.743U	0.743				
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	59.3	119	75 - 133
71-43-2	Benzene	0.049U	0.049	50.0	59.0	118	83 - 124
79-01-6	Trichloroethene	0.094U	0.094	50.0	61.0	122	85 - 124
108-88-3	Toluene	0.078U	0.078	50.0	50.9	102	86 - 116
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.9	100	87 - 115
Surrogate							
460-00-4	4-Bromofluorobenzene	51.5	103	50	52	104	84 - 120
1868-53-7	Dibromofluoromethane	52.7	105	50	51.9	104	87 - 116
2037-26-5	Toluene d8	46.1	92	50	47.6	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	49.1	98	50	48.6	97	76 - 127

Analytical Batch 461062		**Client ID**	MB461062		LCS461062			LCSD461062			
Prep Batch N/A		**GCAL ID**	969136		969248			969249			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	07/16/2011 09:00		07/16/2011 07:57			07/16/2011 18:06			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322								
107-02-8	Acrolein	2.49U	2.49								
107-13-1	Acrylonitrile	1.62U	1.62								
74-97-5	Bromochloromethane	0.238U	0.238								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	ug/L		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-27-4	Bromodichloromethane	0.071U	0.071									
75-25-2	Bromoform	0.278U	0.278									
74-83-9	Bromomethane	0.276U	0.276									
75-15-0	Carbon disulfide	0.190U	0.190									
56-23-5	Carbon tetrachloride	0.056U	0.056									
75-00-3	Chloroethane	0.279U	0.279									
136777-61-2	m,p-Xylene	0.099U	0.099									
67-66-3	Chloroform	0.062U	0.062									
74-87-3	Chloromethane	0.076U	0.076									
124-48-1	Dibromochloromethane	0.133U	0.133									
74-95-3	Dibromomethane	0.197U	0.197									
75-71-8	Dichlorodifluoromethane	0.088U	0.088									
75-34-3	1,1-Dichloroethane	0.064U	0.064									
107-06-2	1,2-Dichloroethane	0.121U	0.121									
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104									
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096									
75-09-2	Methylene chloride	0.102U	0.102									
78-87-5	1,2-Dichloropropane	0.114U	0.114									
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105									
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068									
100-41-4	Ethylbenzene	0.180U	0.180									
97-63-2	Ethyl methacrylate	0.340U	0.340		50.0	49.5	99	68 - 110	59.8	**120***	19	30
591-78-6	2-Hexanone	0.302U	0.302									
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058									
78-93-3	2-Butanone	0.235U	0.235									
74-88-4	Methyl iodide	0.097U	0.097									
108-10-1	4-Methyl-2-pentanone	0.142U	0.142									
103-65-1	n-Propylbenzene	0.069U	0.069									
100-42-5	Styrene	0.058U	0.058									
127-18-4	Tetrachloroethene	0.141U	0.141									
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150									
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112									
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138									

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
71-55-6	1,1,1-Trichloroethane		0.078U	0.078								
79-00-5	1,1,2-Trichloroethane		0.179U	0.179								
75-69-4	Trichlorofluoromethane		0.094U	0.094								
96-18-4	1,2,3-Trichloropropane		0.063U	0.063								
95-63-6	1,2,4-Trimethylbenzene		0.080U	0.080								
108-67-8	1,3,5-Trimethylbenzene		0.053U	0.053								
75-01-4	Vinyl chloride		0.104U	0.104								
95-47-6	o-Xylene		0.077U	0.077								
96-12-8	1,2-Dibromo-3-chloropropane		0.082U	0.082								
106-93-4	1,2-Dibromoethane		0.169U	0.169								
80-62-6	Methyl methacrylate		0.606U	0.606	50.0	56.5	113	63 - 115	47.9	96	16	30
107-12-0	Propionitrile		3.06U	3.06	250	281	112	69 - 119	268	107	5	30
108-05-4	Vinyl acetate		0.197U	0.197								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.084U	0.084								
99-87-6	4-Isopropyltoluene		0.175U	0.175								
110-54-3	n-Hexane		0.126U	0.126								
110-57-6	trans-1,4-Dichloro-2-butene		0.429U	0.429								
594-20-7	2,2-Dichloropropane		0.112U	0.112								
76-13-1	Trichlorotrifluoroethane		0.141U	0.141								
563-58-6	1,1-Dichloropropene		0.071U	0.071								
110-75-8	2-Chloroethylvinyl ether		1.00U	1.00								
142-28-9	1,3-Dichloropropane		0.113U	0.113								
108-86-1	Bromobenzene		0.095U	0.095								
95-49-8	2-Chlorotoluene		0.090U	0.090								
106-43-4	4-Chlorotoluene		0.046U	0.046								
98-06-6	tert-Butylbenzene		0.058U	0.058								
135-98-8	sec-Butylbenzene		0.088U	0.088								
541-73-1	1,3-Dichlorobenzene		0.080U	0.080								
106-46-7	1,4-Dichlorobenzene		0.058U	0.058								
104-51-8	n-Butylbenzene		0.068U	0.068								
95-50-1	1,2-Dichlorobenzene		0.086U	0.086								
87-68-3	Hexachlorobutadiene		0.347U	0.347								
91-20-3	Naphthalene		0.175U	0.175								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062			LCS461062			LCSD461062		
Prep Batch N/A		**GCAL ID**	969136			969248			969249		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06		
		Matrix	Water			Water			Water		
SW-846 8260B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
87-61-6	1,2,3-Trichlorobenzene		0.107U	0.107								
75-05-8	Acetonitrile		5.04U	5.04	250	291	116	57 - 123	174	70	**50***	30
107-05-1	Allyl chloride		0.343U	0.343	50.0	47.5	95	48 - 136	39.0	78	20	30
544-10-5	1-Chlorohexane		0.139U	0.139								
76-01-7	Pentachloroethane		1.87U	1.87	50.0	48.1	96	82 - 111	51.5	103	7	30
126-98-7	Methacrylonitrile		0.743U	0.743	50.0	51.0	102	62 - 133	49.1	98	4	30
75-35-4	1,1-Dichloroethene		0.183U	0.183								
71-43-2	Benzene		0.049U	0.049								
79-01-6	Trichloroethene		0.094U	0.094								
108-88-3	Toluene		0.078U	0.078								
108-90-7	Chlorobenzene		0.055U	0.055								
Surrogate												
460-00-4	4-Bromofluorobenzene		51.5	103	50	51.7	103	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane		52.7	105	50	50.6	101	87 - 116	46.7	93		
2037-26-5	Toluene d8		46.1	92	50	46.5	93	86 - 112	55	110		
17060-07-0	1,2-Dichloroethane-d4		49.1	98	50	51.1	102	76 - 127	51.3	103		

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970501			970502		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:59			07/20/2011 12:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.66J	1.08	50.0	46.0	92	61 - 144	41.6	83	10	30
107-02-8	Acrolein		2.33U	2.33	250	222	89	27 - 156	232	93	4	30
107-13-1	Acrylonitrile		0.580U	0.580	250	251	100	55 - 144	249	100	0.8	30
74-97-5	Bromochloromethane		0.241U	0.241	50.0	51.8	104	72 - 122	52.1	104	0.6	30
75-27-4	Bromodichloromethane		0.135U	0.135	50.0	52.1	104	73 - 122	52.1	104	0	30
75-25-2	Bromoform		0.214U	0.214	50.0	55.9	112	70 - 139	55.9	112	0	30
74-83-9	Bromomethane		0.638U	0.638	50.0	45.9	92	60 - 146	47.7	95	4	30
75-15-0	Carbon disulfide		0.361U	0.361	50.0	47.7	95	61 - 142	46.6	93	2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425	**Client ID**	MB461425	LCS461425	LCSD461425
Prep Batch N/A	**GCAL ID**	970500	970501	970502
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	07/20/2011 13:20	07/20/2011 11:59	07/20/2011 12:26
	Matrix	Solid	Solid	Solid

SW-846 8260B		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
56-23-5	Carbon tetrachloride	0.205U	0.205	50.0	53.4	107	79 - 135	51.4	103	4	30
75-00-3	Chloroethane	0.244U	0.244	50.0	49.1	98	61 - 153	47.8	96	3	30
136777-61-2	m,p-Xylene	0.355U	0.355	100	102	102	82 - 128	98.1	98	4	30
67-66-3	Chloroform	0.688J	0.225	50.0	52.6	105	79 - 129	51.2	102	3	30
74-87-3	Chloromethane	0.565U	0.565	50.0	54.0	108	58 - 163	54.2	108	0.4	30
124-48-1	Dibromochloromethane	0.191U	0.191	50.0	53.3	107	78 - 117	52.4	105	2	30
74-95-3	Dibromomethane	0.194U	0.194	50.0	52.9	106	75 - 128	52.2	104	1	30
75-71-8	Dichlorodifluoromethane	0.119U	0.119	50.0	49.9	100	35 - 162	48.5	97	3	30
75-34-3	1,1-Dichloroethane	0.176U	0.176	50.0	51.9	104	77 - 132	50.5	101	3	30
107-06-2	1,2-Dichloroethane	0.182U	0.182	50.0	51.8	104	78 - 129	51.0	102	2	30
156-59-2	cis-1,2-Dichloroethene	0.129U	0.129	50.0	50.5	101	74 - 123	48.7	97	4	30
156-60-5	trans-1,2-Dichloroethene	0.319U	0.319	50.0	49.9	100	77 - 129	49.9	100	0	30
75-09-2	Methylene chloride	0.481U	0.481	50.0	44.4	89	62 - 140	43.8	88	1	30
78-87-5	1,2-Dichloropropane	0.123U	0.123	50.0	52.5	105	74 - 127	51.6	103	2	30
10061-01-5	cis-1,3-Dichloropropene	0.326U	0.326	50.0	53.2	106	79 - 130	52.8	106	0.8	30
10061-02-6	trans-1,3-Dichloropropene	0.475U	0.475	50.0	53.7	107	87 - 131	53.4	107	0.6	30
100-41-4	Ethylbenzene	0.219U	0.219	50.0	51.0	102	82 - 124	49.4	99	3	30
97-63-2	Ethyl methacrylate	0.431U	0.431								
591-78-6	2-Hexanone	0.707U	0.707	50.0	45.9	92	67 - 130	45.2	90	2	30
98-82-8	Isopropylbenzene (Cumene)	0.093U	0.093	50.0	50.3	101	82 - 133	47.9	96	5	30
78-93-3	2-Butanone	4.41J	0.635	50.0	50.2	100	66 - 134	49.7	99	1	30
74-88-4	Methyl iodide	1.23U	1.23	50.0	50.3	101	66 - 128	48.5	97	4	30
108-10-1	4-Methyl-2-pentanone	0.225U	0.225	50.0	51.0	102	69 - 125	49.9	100	2	30
103-65-1	n-Propylbenzene	0.110U	0.110	50.0	48.2	96	78 - 129	46.4	93	4	30
100-42-5	Styrene	0.412U	0.412	50.0	52.0	104	79 - 123	50.8	102	2	30
127-18-4	Tetrachloroethene	0.204U	0.204	50.0	52.7	105	79 - 132	48.5	97	8	30
630-20-6	1,1,1,2-Tetrachloroethane	0.215U	0.215	50.0	52.7	105	81 - 121	52.1	104	1	30
79-34-5	1,1,2,2-Tetrachloroethane	0.197U	0.197	50.0	51.9	104	70 - 128	51.8	104	0.2	30
120-82-1	1,2,4-Trichlorobenzene	0.145U	0.145	50.0	50.5	101	82 - 137	48.6	97	4	30
71-55-6	1,1,1-Trichloroethane	0.192U	0.192	50.0	51.8	104	80 - 133	50.6	101	2	30
79-00-5	1,1,2-Trichloroethane	0.171U	0.171	50.0	51.1	102	76 - 118	51.4	103	0.6	30
75-69-4	Trichlorofluoromethane	0.204U	0.204	50.0	50.7	101	67 - 149	48.9	98	4	30
96-18-4	1,2,3-Trichloropropane	0.164U	0.164	50.0	51.7	103	74 - 125	51.8	104	0.2	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch	N/A	**GCAL ID**	970500			970501			970502		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:59			07/20/2011 12:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	ug/Kg		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
95-63-6	1,2,4-Trimethylbenzene	0.119U	0.119		50.0	50.2	100	77 - 129	48.3	97	4	30
108-67-8	1,3,5-Trimethylbenzene	0.114U	0.114		50.0	48.2	96	79 - 129	46.4	93	4	30
75-01-4	Vinyl chloride	0.250U	0.250		50.0	51.6	103	60 - 145	50.6	101	2	30
95-47-6	o-Xylene	0.868J	0.144		50.0	50.1	100	82 - 126	48.8	98	3	30
96-12-8	1,2-Dibromo-3-chloropropane	0.697U	0.697		50.0	53.4	107	67 - 129	53.9	108	0.9	30
106-93-4	1,2-Dibromoethane	0.548U	0.548		50.0	53.0	106	77 - 126	52.3	105	1	30
80-62-6	Methyl methacrylate	0.799U	0.799									
107-12-0	Propionitrile	2.54U	2.54									
108-05-4	Vinyl acetate	0.221U	0.221		50.0	60.1	120	25 - 164	61.8	124	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.239U	0.239		50.0	47.9	96	70 - 131	47.7	95	0.4	30
99-87-6	4-Isopropyltoluene	0.085U	0.085		50.0	49.1	98	82 - 132	46.1	92	6	30
110-54-3	n-Hexane	0.508J	0.322		50.0	49.4	99	65 - 147	45.6	91	8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.518U	0.518		50.0	55.2	110	74 - 138	55.3	111	0.2	30
594-20-7	2,2-Dichloropropane	0.304U	0.304		50.0	50.5	101	80 - 137	47.8	96	5	30
76-13-1	Trichlorotrifluoroethane	0.200U	0.200		50.0	50.0	100	62 - 147	46.9	94	6	30
563-58-6	1,1-Dichloropropene	0.198U	0.198		50.0	52.2	104	81 - 133	49.6	99	5	30
110-75-8	2-Chloroethylvinyl ether	1.20U	1.20		50.0	56.7	113	52 - 142	58.1	116	2	30
142-28-9	1,3-Dichloropropane	0.134U	0.134		50.0	52.6	105	78 - 118	51.5	103	2	30
108-86-1	Bromobenzene	0.147U	0.147		50.0	48.6	97	78 - 123	47.2	94	3	30
95-49-8	2-Chlorotoluene	0.173U	0.173		50.0	48.1	96	77 - 123	46.9	94	3	30
106-43-4	4-Chlorotoluene	0.110U	0.110		50.0	48.1	96	78 - 129	47.3	95	2	30
98-06-6	tert-Butylbenzene	0.138U	0.138		50.0	49.0	98	79 - 130	46.5	93	5	30
135-98-8	sec-Butylbenzene	0.108U	0.108		50.0	50.2	100	82 - 132	47.6	95	5	30
541-73-1	1,3-Dichlorobenzene	0.141U	0.141		50.0	49.9	100	82 - 126	48.7	97	2	30
106-46-7	1,4-Dichlorobenzene	0.142U	0.142		50.0	48.9	98	84 - 124	48.0	96	2	30
104-51-8	n-Butylbenzene	0.142U	0.142		50.0	50.1	100	80 - 138	47.4	95	6	30
95-50-1	1,2-Dichlorobenzene	0.254U	0.254		50.0	48.7	97	83 - 123	47.9	96	2	30
87-68-3	Hexachlorobutadiene	0.152U	0.152		50.0	52.5	105	77 - 150	49.2	98	6	30
91-20-3	Naphthalene	0.175U	0.175		50.0	49.3	99	59 - 143	49.7	99	0.8	30
87-61-6	1,2,3-Trichlorobenzene	0.113U	0.113		50.0	50.3	101	78 - 136	48.8	98	3	30
75-05-8	Acetonitrile	1.67U	1.67									
107-05-1	Allyl chloride	0.551U	0.551									
544-10-5	1-Chlorohexane	0.147U	0.147		50.0	54.1	108	85 - 137	48.8	98	10	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970501			970502		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:59			07/20/2011 12:26		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
76-01-7	Pentachloroethane		0.817U	0.817								
126-98-7	Methacrylonitrile		0.441U	0.441								
75-35-4	1,1-Dichloroethene		0.307U	0.307	50.0	47.5	95	66 - 132	46.7	93	2	30
71-43-2	Benzene		0.180J	0.106	50.0	51.7	103	78 - 130	50.6	101	2	30
79-01-6	Trichloroethene		0.174U	0.174	50.0	51.1	102	78 - 132	49.8	100	3	30
108-88-3	Toluene		0.264U	0.264	50.0	51.9	104	80 - 123	50.2	100	3	30
108-90-7	Chlorobenzene		0.179U	0.179	50.0	50.7	101	83 - 122	49.4	99	3	30
Surrogate												
460-00-4	4-Bromofluorobenzene		48.2	96	50	50.9	102	59 - 148	50.4	101		
1868-53-7	Dibromofluoromethane		49.3	99	50	51.3	103	80 - 121	50.7	101		
2037-26-5	Toluene d8		49.7	99	50	50.1	100	71 - 130	49.8	100		
17060-07-0	1,2-Dichloroethane-d4		48	96	50	51.8	104	77 - 123	51.3	103		

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970639			970640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
67-64-1	Acetone		1.66J	1.08								
107-02-8	Acrolein		2.33U	2.33								
107-13-1	Acrylonitrile		0.580U	0.580								
74-97-5	Bromochloromethane		0.241U	0.241								
75-27-4	Bromodichloromethane		0.135U	0.135								
75-25-2	Bromoform		0.214U	0.214								
74-83-9	Bromomethane		0.638U	0.638								
75-15-0	Carbon disulfide		0.361U	0.361								
56-23-5	Carbon tetrachloride		0.205U	0.205								
75-00-3	Chloroethane		0.244U	0.244								
136777-61-2	m,p-Xylene		0.355U	0.355								
67-66-3	Chloroform		0.688J	0.225								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch	N/A	**GCAL ID**	970500			970639			970640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
74-87-3	Chloromethane		0.565U	0.565								
124-48-1	Dibromochloromethane		0.191U	0.191								
74-95-3	Dibromomethane		0.194U	0.194								
75-71-8	Dichlorodifluoromethane		0.119U	0.119								
75-34-3	1,1-Dichloroethane		0.176U	0.176								
107-06-2	1,2-Dichloroethane		0.182U	0.182								
156-59-2	cis-1,2-Dichloroethene		0.129U	0.129								
156-60-5	trans-1,2-Dichloroethene		0.319U	0.319								
75-09-2	Methylene chloride		0.481U	0.481								
78-87-5	1,2-Dichloropropane		0.123U	0.123								
10061-01-5	cis-1,3-Dichloropropene		0.326U	0.326								
10061-02-6	trans-1,3-Dichloropropene		0.475U	0.475								
100-41-4	Ethylbenzene		0.219U	0.219								
97-63-2	Ethyl methacrylate		0.431U	0.431	50.0	52.6	105	78 - 118	51.3	103	3	30
591-78-6	2-Hexanone		0.707U	0.707								
98-82-8	Isopropylbenzene (Cumene)		0.093U	0.093								
78-93-3	2-Butanone		4.41J	0.635								
74-88-4	Methyl iodide		1.23U	1.23								
108-10-1	4-Methyl-2-pentanone		0.225U	0.225								
103-65-1	n-Propylbenzene		0.110U	0.110								
100-42-5	Styrene		0.412U	0.412								
127-18-4	Tetrachloroethene		0.204U	0.204								
630-20-6	1,1,1,2-Tetrachloroethane		0.215U	0.215								
79-34-5	1,1,2,2-Tetrachloroethane		0.197U	0.197								
120-82-1	1,2,4-Trichlorobenzene		0.145U	0.145								
71-55-6	1,1,1-Trichloroethane		0.192U	0.192								
79-00-5	1,1,2-Trichloroethane		0.171U	0.171								
75-69-4	Trichlorofluoromethane		0.204U	0.204								
96-18-4	1,2,3-Trichloropropane		0.164U	0.164								
95-63-6	1,2,4-Trimethylbenzene		0.119U	0.119								
108-67-8	1,3,5-Trimethylbenzene		0.114U	0.114								
75-01-4	Vinyl chloride		0.250U	0.250								
95-47-6	o-Xylene		0.868J	0.144								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	MB461425			LCS461425			LCSD461425			
Prep Batch	N/A	**GCAL ID**	970500			970639			970640			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32			
		Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
96-12-8	1,2-Dibromo-3-chloropropane		0.697U	0.697								
106-93-4	1,2-Dibromoethane		0.548U	0.548								
80-62-6	Methyl methacrylate		0.799U	0.799	50.0	52.7	105	73 - 125	52.0	104	1	30
107-12-0	Propionitrile		2.54U	2.54	250	264	106	73 - 133	264	106	0	30
108-05-4	Vinyl acetate		0.221U	0.221								
1634-04-4	tert-Butyl methyl ether (MTBE)		0.239U	0.239								
99-87-6	4-Isopropyltoluene		0.085U	0.085								
110-54-3	n-Hexane		0.508J	0.322								
110-57-6	trans-1,4-Dichloro-2-butene		0.518U	0.518								
594-20-7	2,2-Dichloropropane		0.304U	0.304								
76-13-1	Trichlorotrifluoroethane		0.200U	0.200								
563-58-6	1,1-Dichloropropene		0.198U	0.198								
110-75-8	2-Chloroethylvinyl ether		1.20U	1.20								
142-28-9	1,3-Dichloropropane		0.134U	0.134								
108-86-1	Bromobenzene		0.147U	0.147								
95-49-8	2-Chlorotoluene		0.173U	0.173								
106-43-4	4-Chlorotoluene		0.110U	0.110								
98-06-6	tert-Butylbenzene		0.138U	0.138								
135-98-8	sec-Butylbenzene		0.108U	0.108								
541-73-1	1,3-Dichlorobenzene		0.141U	0.141								
106-46-7	1,4-Dichlorobenzene		0.142U	0.142								
104-51-8	n-Butylbenzene		0.142U	0.142								
95-50-1	1,2-Dichlorobenzene		0.254U	0.254								
87-68-3	Hexachlorobutadiene		0.152U	0.152								
91-20-3	Naphthalene		0.175U	0.175								
87-61-6	1,2,3-Trichlorobenzene		0.113U	0.113								
75-05-8	Acetonitrile		1.67U	1.67	250	239	96	59 - 139	241	96	0.8	30
107-05-1	Allyl chloride		0.551U	0.551	50.0	58.1	116	41 - 152	51.0	102	13	30
544-10-5	1-Chlorohexane		0.147U	0.147								
76-01-7	Pentachloroethane		0.817U	0.817	50.0	408	**816***	64 - 156	213	**426***	63	
126-98-7	Methacrylonitrile		0.441U	0.441	50.0	52.0	104	70 - 138	53.5	107	3	30
75-35-4	1,1-Dichloroethene		0.307U	0.307								
71-43-2	Benzene		0.180J	0.106								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425		**Client ID**	MB461425			LCS461425			LCSD461425		
Prep Batch N/A		**GCAL ID**	970500			970639			970640		
		Sample Type	Method Blank			LCS			LCSD		
		Analytical Date	07/20/2011 13:20			07/20/2011 11:05			07/20/2011 11:32		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
79-01-6	Trichloroethene		0.174U	0.174								
108-88-3	Toluene		0.264U	0.264								
108-90-7	Chlorobenzene		0.179U	0.179								
Surrogate												
460-00-4	4-Bromofluorobenzene		48.2	96	50	49.4	99	59 - 148	49.8	100		
1868-53-7	Dibromofluoromethane		49.3	99	50	49.2	98	80 - 121	48.5	97		
2037-26-5	Toluene d8		49.7	99	50	50.2	100	71 - 130	49.9	100		
17060-07-0	1,2-Dichloroethane-d4		48	96	50	51.5	103	77 - 123	51.7	103		

Analytical Batch 461425		**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD		
Prep Batch N/A		**GCAL ID**	21107141203			21107141204			21107141205		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/20/2011 13:47			07/20/2011 15:08			07/20/2011 15:34		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
630-20-6	1,1,1,2-Tetrachloroethane		0.00	0.197	44.7	45.9	103	81 - 121	48.4	102	5	30
71-55-6	1,1,1-Trichloroethane		0.00	0.176	44.7	46.3	104	80 - 133	48.9	103	5	30
79-34-5	1,1,2,2-Tetrachloroethane		0.00	0.181	44.7	50.2	112	70 - 128	57.2	121	13	30
79-00-5	1,1,2-Trichloroethane		0.00	0.157	44.7	45.9	103	76 - 118	50.5	106	10	30
75-34-3	1,1-Dichloroethane		0.00	0.161	44.7	45.6	102	77 - 132	44.1	93	3	30
75-35-4	1,1-Dichloroethene		0.00	0.282	44.7	44.2	99	66 - 132	44.3	93	0.2	22
563-58-6	1,1-Dichloropropene		0.00	0.182	44.7	46.6	104	81 - 133	48.7	103	4	30
87-61-6	1,2,3-Trichlorobenzene		0.00	0.104	44.7	38.8	87	78 - 136	40.8	86	5	30
96-18-4	1,2,3-Trichloropropane		0.00	0.150	44.7	64.2	**144***	74 - 125	74.4	**157***	15	30
120-82-1	1,2,4-Trichlorobenzene		0.00	0.133	44.7	39.9	89	82 - 137	41.0	86	3	30
95-63-6	1,2,4-Trimethylbenzene		0.00	0.109	44.7	43.7	98	77 - 129	46.1	97	5	30
96-12-8	1,2-Dibromo-3-chloropropane		0.00	0.639	44.7	50.4	113	67 - 129	60.1	127	18	30
106-93-4	1,2-Dibromoethane		0.00	0.503	44.7	46.6	104	77 - 126	52.0	110	11	30
95-50-1	1,2-Dichlorobenzene		0.00	0.233	44.7	41.7	93	83 - 123	44.2	93	6	30
107-06-2	1,2-Dichloroethane		0.00	0.167	44.7	43.7	98	78 - 129	47.4	100	8	30
78-87-5	1,2-Dichloropropane		0.00	0.113	44.7	47.6	106	74 - 127	49.4	104	4	30

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425		**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD		
Prep Batch N/A		**GCAL ID**	21107141203			21107141204			21107141205		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/20/2011 13:47			07/20/2011 15:08			07/20/2011 15:34		
		Matrix	Solid			Solid			Solid		
SW-846 8260B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
108-67-8	1,3,5-Trimethylbenzene		0.00	0.105	44.7	42.3	95	79 - 129	44.1	93	4	30
541-73-1	1,3-Dichlorobenzene		0.00	0.129	44.7	42.9	96	82 - 126	45.5	96	6	30
142-28-9	1,3-Dichloropropane		0.00	0.123	44.7	46.9	105	78 - 118	51.6	109	10	30
106-46-7	1,4-Dichlorobenzene		0.00	0.130	44.7	41.2	92	84 - 124	43.5	92	5	30
544-10-5	1-Chlorohexane		0.00	0.135	44.7	48.9	109	85 - 137	50.9	107	4	30
594-20-7	2,2-Dichloropropane		0.00	0.279	44.7	45.8	102	80 - 137	45.0	95	2	30
78-93-3	2-Butanone		6.77	0.583	44.7	47.3	91	66 - 134	58.4	109	21	30
110-75-8	2-Chloroethylvinyl ether		0.00	1.10	44.7	0.00	**0***	52 - 142	41.2	87	**200***	30
95-49-8	2-Chlorotoluene		0.00	0.159	44.7	42.2	94	77 - 123	44.7	94	6	30
591-78-6	2-Hexanone		0.00	0.649	44.7	44.5	100	67 - 130	53.9	114	19	30
106-43-4	4-Chlorotoluene		0.00	0.101	44.7	41.3	92	78 - 129	44.3	93	7	30
99-87-6	4-Isopropyltoluene		0.00	0.078	44.7	42.8	96	82 - 132	44.5	94	4	30
108-10-1	4-Methyl-2-pentanone		0.00	0.206	44.7	51.3	115	69 - 125	61.1	**129***	17	30
67-64-1	Acetone		19.6	0.991	44.7	40.7	**47***	61 - 144	53.4	71	27	30
75-05-8	Acetonitrile		0.00	1.53	224	239	107	59 - 139	297	125	22	30
107-02-8	Acrolein		0.00	2.14	224	215	96	27 - 156	277	117	25	30
107-13-1	Acrylonitrile		0.00	0.532	224	258	115	55 - 144	311	131	19	30
107-05-1	Allyl chloride		0.00	0.506	44.7	46.5	104	41 - 152	47.0	99	1	30
71-43-2	Benzene		3.07	0.097	44.7	45.4	95	78 - 130	48.7	96	7	21
108-86-1	Bromobenzene		0.00	0.135	44.7	41.4	93	78 - 123	44.1	93	6	30
74-97-5	Bromochloromethane		0.00	0.221	44.7	43.3	97	72 - 122	47.5	100	9	30
75-27-4	Bromodichloromethane		0.00	0.124	44.7	44.5	100	73 - 122	46.8	99	5	30
75-25-2	Bromoform		0.00	0.196	44.7	51.6	115	70 - 139	58.0	122	12	30
74-83-9	Bromomethane		0.00	0.585	44.7	38.2	85	60 - 146	43.8	92	14	30
75-15-0	Carbon disulfide		0.00	0.331	44.7	42.8	96	61 - 142	45.4	96	6	30
56-23-5	Carbon tetrachloride		0.00	0.188	44.7	47.0	105	79 - 135	49.4	104	5	30
108-90-7	Chlorobenzene		0.00	0.164	44.7	43.1	96	83 - 122	45.2	95	5	21
75-00-3	Chloroethane		0.00	0.224	44.7	23.4	**52***	61 - 153	24.6	**52***	5	30
67-66-3	Chloroform		0.690	0.206	44.7	44.1	97	79 - 129	46.1	96	4	30
74-87-3	Chloromethane		0.00	0.518	44.7	44.7	100	58 - 163	47.9	101	7	30
124-48-1	Dibromochloromethane		0.00	0.175	44.7	46.1	103	78 - 117	50.9	107	10	30
74-95-3	Dibromomethane		0.00	0.178	44.7	45.1	101	75 - 128	49.5	104	9	30
75-71-8	Dichlorodifluoromethane		0.00	0.109	44.7	45.1	101	35 - 162	48.1	101	6	30

GC/MS Volatiles Quality Control Summary

Analytical Batch	461425	**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD			
Prep Batch	N/A	**GCAL ID**	21107141203			21107141204			21107141205			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	07/20/2011 13:47			07/20/2011 15:08			07/20/2011 15:34			
		Matrix	Solid			Solid			Solid			
SW-846 8260B		**Units**	ug/Kg		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
97-63-2	Ethyl methacrylate	0.00	0.395		44.7	53.3	**119***	78 - 118	58.1	**122***	9	30
100-41-4	Ethylbenzene	0.00	0.201		44.7	44.7	100	82 - 124	46.3	98	4	30
87-68-3	Hexachlorobutadiene	0.00	0.139		44.7	42.1	94	77 - 150	39.2	83	7	30
98-82-8	Isopropylbenzene (Cumene)	0.00	0.086		44.7	44.8	100	82 - 133	46.3	98	3	30
126-98-7	Methacrylonitrile	0.00	0.405		44.7	50.2	112	70 - 138	58.2	123	15	30
74-88-4	Methyl iodide	0.00	1.13		44.7	42.6	95	66 - 128	43.1	91	1	30
80-62-6	Methyl methacrylate	0.00	0.733		44.7	54.8	123	73 - 125	63.4	**134***	15	30
75-09-2	Methylene chloride	0.00	0.441		44.7	35.8	80	62 - 140	37.5	79	5	30
91-20-3	Naphthalene	0.00	0.161		44.7	41.2	92	59 - 143	47.9	101	15	30
76-01-7	Pentachloroethane	0.00	0.750		44.7	491	**1100***	64 - 156	530	**1120***	8	
107-12-0	Propionitrile	0.00	2.33		224	277	124	73 - 133	347	**146***	22	30
100-42-5	Styrene	0.00	0.378		44.7	43.4	97	79 - 123	45.7	96	5	30
127-18-4	Tetrachloroethene	0.00	0.187		44.7	49.3	110	79 - 132	51.2	108	4	30
108-88-3	Toluene	2.07	0.242		44.7	45.8	98	80 - 123	46.9	95	2	21
79-01-6	Trichloroethene	0.00	0.160		44.7	46.5	104	78 - 132	49.2	104	6	24
75-69-4	Trichlorofluoromethane	0.00	0.187		44.7	44.4	99	67 - 149	46.8	99	5	30
76-13-1	Trichlorotrifluoroethane	0.00	0.183		44.7	44.6	100	62 - 147	46.6	98	4	30
108-05-4	Vinyl acetate	0.00	0.203		44.7	57.8	129	25 - 164	68.3	144	17	30
75-01-4	Vinyl chloride	0.00	0.229		44.7	45.8	102	60 - 145	49.3	104	7	30
156-59-2	cis-1,2-Dichloroethene	0.00	0.118		44.7	42.3	95	74 - 123	44.9	95	6	30
10061-01-5	cis-1,3-Dichloropropene	0.00	0.299		44.7	44.4	99	79 - 130	47.5	100	7	30
136777-61-2	m,p-Xylene	0.169	0.326		89.4	89.5	100	82 - 128	93.2	98	4	30
104-51-8	n-Butylbenzene	0.00	0.130		44.7	42.1	94	80 - 138	42.3	89	0.5	30
110-54-3	n-Hexane	1.74	0.295		44.7	42.3	91	65 - 147	44.6	90	5	30
103-65-1	n-Propylbenzene	0.00	0.101		44.7	42.3	95	78 - 129	44.3	93	5	30
95-47-6	o-Xylene	0.911	0.132		44.7	43.6	95	82 - 126	46.2	95	6	30
135-98-8	sec-Butylbenzene	0.00	0.099		44.7	43.6	97	82 - 132	44.7	94	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.00	0.219		44.7	41.2	92	70 - 131	44.4	94	7	30
98-06-6	tert-Butylbenzene	0.00	0.127		44.7	43.2	97	79 - 130	44.8	94	4	30
156-60-5	trans-1,2-Dichloroethene	0.00	0.293		44.7	44.6	100	77 - 129	46.1	97	3	30
10061-02-6	trans-1,3-Dichloropropene	0.00	0.436		44.7	45.3	101	87 - 131	48.9	103	8	30
110-57-6	trans-1,4-Dichloro-2-butene	0.00	0.475		89.4	120	134	74 - 138	137	**144***	13	30
Surrogate												

GC/MS Volatiles Quality Control Summary

Analytical Batch 461425	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD	
Prep Batch N/A	**GCAL ID**	21107141203	21107141204	21107141205	
	Sample Type	SAMPLE	MS	MSD	
	Analytical Date	07/20/2011 13:47	07/20/2011 15:08	07/20/2011 15:34	
	Matrix	Solid	Solid	Solid	

SW-846 8260B		**Units**	ug/Kg	**Spike**							
		Result	**RDL**	**Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
460-00-4	4-Bromofluorobenzene	46.1	100	44.7	46.4	104	59 - 148	48.3	102		
1868-53-7	Dibromofluoromethane	46.9	102	44.7	46.6	104	80 - 121	49.3	104		
2037-26-5	Toluene d8	45.3	99	44.7	45.3	101	71 - 130	47.1	99		
17060-07-0	1,2-Dichloroethane-d4	51	111	44.7	51.6	115	77 - 123	55.8	118		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012			LCS461012			LCSD461012		
Prep Batch	461012	**GCAL ID**	968803			968804			968805		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/18/2011 08:45			07/18/2011 08:45			07/18/2011 08:45		
		Analytical Date	07/18/2011 11:06			07/18/2011 11:22			07/18/2011 11:38		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
208-96-8	Acenaphthylene		0.303U	0.303								
120-12-7	Anthracene		0.316U	0.316								
56-55-3	Benzo(a)anthracene		0.316U	0.316								
92-87-5	Benzidine		3.92U	3.92								
205-99-2	Benzo(b)fluoranthene		0.217U	0.217								
207-08-9	Benzo(k)fluoranthene		0.236U	0.236								
191-24-2	Benzo(g,h,i)perylene		0.215U	0.215								
50-32-8	Benzo(a)pyrene		0.125U	0.125								
65-85-0	Benzoic acid		0.910U	0.910								
85-68-7	Butyl benzyl phthalate		0.165U	0.165								
111-91-1	Bis(2-Chloroethoxy)methane		0.290U	0.290								
111-44-4	Bis(2-Chloroethyl)ether		0.288U	0.288								
108-60-1	Bis(2-Chloroisopropyl)ether		0.257U	0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate		0.191U	0.191								
101-55-3	4-Bromophenyl phenyl ether		0.337U	0.337								
7005-72-3	4-Chlorophenyl phenyl ether		0.268U	0.268								
218-01-9	Chrysene		0.433U	0.433								
53-70-3	Dibenz(a,h)anthracene		0.217U	0.217								
132-64-9	Dibenzofuran		0.227U	0.227								
95-50-1	1,2-Dichlorobenzene		0.259U	0.259								
541-73-1	1,3-Dichlorobenzene		0.274U	0.274								
91-94-1	3,3'-Dichlorobenzidine		0.297U	0.297								
120-83-2	2,4-Dichlorophenol		0.217U	0.217								
84-66-2	Diethyl phthalate		0.303U	0.303								
105-67-9	2,4-Dimethylphenol		0.694U	0.694								
131-11-3	Dimethyl phthalate		0.255U	0.255								
117-84-0	Di-n-octyl phthalate		0.167U	0.167								
51-28-5	2,4-Dinitrophenol		2.60U	2.60								
606-20-2	2,6-Dinitrotoluene		0.352U	0.352								
206-44-0	Fluoranthene		0.267U	0.267								
86-73-7	Fluorene		0.288U	0.288								
118-74-1	Hexachlorobenzene		0.249U	0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012	LCS461012	LCSD461012
Prep Batch	461012	**GCAL ID**	968803	968804	968805
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/18/2011 08:45	07/18/2011 08:45	07/18/2011 08:45
		Analytical Date	07/18/2011 11:06	07/18/2011 11:22	07/18/2011 11:38
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174								
67-72-1	Hexachloroethane	0.299U	0.299								
78-59-1	Isophorone	0.380U	0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157								
91-57-6	2-Methylnaphthalene	0.255U	0.255								
95-48-7	o-Cresol	0.329U	0.329								
91-20-3	Naphthalene	0.293U	0.293								
98-95-3	Nitrobenzene	0.329U	0.329								
88-75-5	2-Nitrophenol	0.357U	0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364								
85-01-8	Phenanthrene	0.304U	0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275								
100-51-6	Benzyl alcohol	0.355U	0.355								
99-09-2	3-Nitroaniline	0.226U	0.226								
100-01-6	4-Nitroaniline	0.221U	0.221								
84-74-2	Di-n-butyl phthalate	0.189U	0.189								
88-74-4	2-Nitroaniline	0.198U	0.198								
91-58-7	2-Chloronaphthalene	0.221U	0.221								
106-47-8	4-Chloroaniline	0.463U	0.463								
1319-77-3MP	m,p-Cresol	0.352U	0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98								
108-95-2	Phenol	0.150U	0.150	100	24.1	24	13 - 54	26.6	27	10	30
95-57-8	2-Chlorophenol	0.276U	0.276	100	60.8	61	44 - 103	59.5	60	2	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255	100	79.8	80	40 - 100	75.9	76	5	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304	100	83.4	83	51 - 104	75.7	76	10	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234	100	80.9	81	45 - 104	74.8	75	8	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234	100	65.6	66	53 - 105	58.6	59	11	30
83-32-9	Acenaphthene	0.268U	0.268	100	81.4	81	58 - 106	76.6	77	6	30
100-02-7	4-Nitrophenol	1.83U	1.83	100	24.6	25	13 - 55	26.0	26	6	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263	100	88.5	89	60 - 109	82.7	83	7	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012	LCS461012	LCSD461012
Prep Batch	461012	**GCAL ID**	968803	968804	968805
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/18/2011 08:45	07/18/2011 08:45	07/18/2011 08:45
		Analytical Date	07/18/2011 11:06	07/18/2011 11:22	07/18/2011 11:38
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	66.6	67	57 - 118	61.9	62	7	30
129-00-0	Pyrene	0.486U	0.486	100	96.1	96	60 - 113	87.3	87	10	30
Surrogate											
4165-60-0	Nitrobenzene-d5	45.8	92	50	47	94	52 - 120	39.3	79		
321-60-8	2-Fluorobiphenyl	47.2	94	50	46.8	94	16 - 128	40.7	81		
1718-51-0	Terphenyl-d14	52.8	106	50	55	110	43 - 138	48	96		
4165-62-2	Phenol-d5	33	33	100	34.2	34	10 - 120	34.9	35		
367-12-4	2-Fluorophenol	52.2	52	100	53.6	54	10 - 120	51.4	51		
118-79-6	2,4,6-Tribromophenol	97.1	97	100	100	100	20 - 120	87.1	87		

Analytical Batch	461414	**Client ID**	MB460889	LCS460889	LCSD460889
Prep Batch	460889	**GCAL ID**	968189	968190	968191
Prep Method	3550B	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 08:39	07/20/2011 08:54	07/20/2011 09:09
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
208-96-8	Acenaphthylene	13.1U	13.1								
120-12-7	Anthracene	11.4U	11.4								
56-55-3	Benzo(a)anthracene	25.8U	25.8								
92-87-5	Benzidine	1650U	1650								
205-99-2	Benzo(b)fluoranthene	30.4U	30.4								
207-08-9	Benzo(k)fluoranthene	13.4U	13.4								
191-24-2	Benzo(g,h,i)perylene	10.5U	10.5								
50-32-8	Benzo(a)pyrene	12.3U	12.3								
65-85-0	Benzoic acid	68.0U	68.0								
85-68-7	Butyl benzyl phthalate	5.93U	5.93								
111-91-1	Bis(2-Chloroethoxy)methane	25.8U	25.8								
111-44-4	Bis(2-Chloroethyl)ether	24.3U	24.3								
108-60-1	Bis(2-Chloroisopropyl)ether	20.6U	20.6								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	MB460889			LCS460889			LCSD460889			
Prep Batch	460889	**GCAL ID**	968189			968190			968191			
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	07/19/2011 15:18			07/19/2011 15:18			07/19/2011 15:18			
		Analytical Date	07/20/2011 08:39			07/20/2011 08:54			07/20/2011 09:09			
		Matrix	Solid			Solid			Solid			
SW-846 8270C		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
117-81-7	Bis(2-Ethylhexyl)phthalate		19.6U	19.6								
101-55-3	4-Bromophenyl phenyl ether		18.5U	18.5								
7005-72-3	4-Chlorophenyl phenyl ether		18.7U	18.7								
218-01-9	Chrysene		14.5U	14.5								
53-70-3	Dibenz(a,h)anthracene		11.5U	11.5								
132-64-9	Dibenzofuran		10.7U	10.7								
95-50-1	1,2-Dichlorobenzene		11.1U	11.1								
541-73-1	1,3-Dichlorobenzene		12.5U	12.5								
91-94-1	3,3'-Dichlorobenzidine		306U	306								
120-83-2	2,4-Dichlorophenol		35.4U	35.4								
84-66-2	Diethyl phthalate		20.3U	20.3								
105-67-9	2,4-Dimethylphenol		233U	233								
131-11-3	Dimethyl phthalate		14.1U	14.1								
117-84-0	Di-n-octyl phthalate		4.44U	4.44								
51-28-5	2,4-Dinitrophenol		152U	152								
606-20-2	2,6-Dinitrotoluene		26.6U	26.6								
206-44-0	Fluoranthene		6.52U	6.52								
86-73-7	Fluorene		12.9U	12.9								
118-74-1	Hexachlorobenzene		19.1U	19.1								
87-68-3	Hexachlorobutadiene		20.0U	20.0								
77-47-4	Hexachlorocyclopentadiene		120U	120								
67-72-1	Hexachloroethane		15.9U	15.9								
78-59-1	Isophorone		11.6U	11.6								
193-39-5	Indeno(1,2,3-cd)pyrene		30.9U	30.9								
91-57-6	2-Methylnaphthalene		8.96U	8.96								
95-48-7	o-Cresol		11.7U	11.7								
91-20-3	Naphthalene		13.2U	13.2								
98-95-3	Nitrobenzene		18.4U	18.4								
88-75-5	2-Nitrophenol		24.5U	24.5								
86-30-6	n-Nitrosodiphenylamine		10.5U	10.5								
85-01-8	Phenanthrene		10.6U	10.6								
95-95-4	2,4,5-Trichlorophenol		22.3U	22.3								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	MB460889	LCS460889	LCSD460889
Prep Batch	460889	**GCAL ID**	968189	968190	968191
Prep Method	3550B	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 08:39	07/20/2011 08:54	07/20/2011 09:09
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
88-06-2	2,4,6-Trichlorophenol	78.7U	78.7								
100-51-6	Benzyl alcohol	45.1U	45.1								
99-09-2	3-Nitroaniline	22.0U	22.0								
100-01-6	4-Nitroaniline	163U	163								
84-74-2	Di-n-butyl phthalate	13.1U	13.1								
88-74-4	2-Nitroaniline	24.0U	24.0								
91-58-7	2-Chloronaphthalene	10.6U	10.6								
106-47-8	4-Chloroaniline	22.2U	22.2								
1319-77-3MP	m,p-Cresol	46.6U	46.6								
534-52-1	4,6-Dinitro-2-methylphenol	150U	150								
108-95-2	Phenol	19.8U	19.8	3330	2030	61	55 - 99	2080	62	2	40
95-57-8	2-Chlorophenol	11.6U	11.6	3330	2180	65	54 - 97	2170	65	0.5	40
106-46-7	1,4-Dichlorobenzene	10.4U	10.4	3330	2490	75	45 - 88	2540	76	2	40
621-64-7	n-Nitrosodi-n-propylamine	15.1U	15.1	3330	2640	79	49 - 94	2550	77	3	40
120-82-1	1,2,4-Trichlorobenzene	11.3U	11.3	3330	2620	79	52 - 93	2640	79	0.8	40
59-50-7	4-Chloro-3-methylphenol	31.5U	31.5	3330	2120	64	59 - 102	2080	62	2	40
83-32-9	Acenaphthene	13.1U	13.1	3330	2770	83	59 - 97	2710	81	2	40
100-02-7	4-Nitrophenol	93.1U	93.1	3330	2020	61	56 - 106	2020	61	0	40
121-14-2	2,4-Dinitrotoluene	20.0U	20.0	3330	2970	89	59 - 103	2900	87	2	40
87-86-5	Pentachlorophenol	126U	126	3330	1960	59	50 - 115	2040	61	4	40
129-00-0	Pyrene	15.3U	15.3	3330	3310	99	58 - 109	3190	96	4	40
Surrogate											
4165-60-0	Nitrobenzene-d5	1410	85	1670	1330	80	41 - 123	1350	81		
321-60-8	2-Fluorobiphenyl	1450	87	1670	1450	87	46 - 122	1460	88		
1718-51-0	Terphenyl-d14	1660	100	1670	1700	102	45 - 135	1640	98		
4165-62-2	Phenol-d5	2960	89	3330	2990	90	44 - 124	2960	89		
367-12-4	2-Fluorophenol	2990	90	3330	2880	86	45 - 114	2870	86		
118-79-6	2,4,6-Tribromophenol	2910	87	3330	3310	99	50 - 128	3230	97		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461414	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD
Prep Batch	460889	**GCAL ID**	21107141203	21107141204	21107141205
Prep Method	3550B	**Sample Type**	SAMPLE	MS	MSD
		Prep Date	07/19/2011 15:18	07/19/2011 15:18	07/19/2011 15:18
		Analytical Date	07/20/2011 12:31	07/20/2011 12:46	07/20/2011 13:01
		Matrix	Solid	Solid	Solid

SW-846 8270C		**Units**	ug/Kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
120-82-1	1,2,4-Trichlorobenzene	0.00	11.3	3290	2730	83	52 - 93	2680	80	2	32
106-46-7	1,4-Dichlorobenzene	0.00	10.4	3290	2610	79	45 - 88	2520	76	4	36
121-14-2	2,4-Dinitrotoluene	0.00	20.0	3290	2900	88	59 - 103	3180	95	9	30
95-57-8	2-Chlorophenol	0.00	11.6	3290	2830	86	54 - 97	2830	85	0	31
59-50-7	4-Chloro-3-methylphenol	0.00	31.5	3290	2750	84	59 - 102	2900	87	5	27
100-02-7	4-Nitrophenol	0.00	93.1	3290	2340	71	56 - 106	2670	80	13	29
83-32-9	Acenaphthene	0.00	13.1	3290	2850	87	59 - 97	2820	85	1	29
87-86-5	Pentachlorophenol	0.00	126	3290	2550	78	50 - 115	2640	79	3	33
108-95-2	Phenol	0.00	19.8	3290	2760	84	55 - 99	2750	83	0.4	28
129-00-0	Pyrene	0.00	15.3	3290	3320	101	58 - 109	3140	94	6	33
621-64-7	n-Nitrosodi-n-propylamine	0.00	15.1	3290	2630	80	49 - 94	2640	79	0.4	28
Surrogate											
4165-60-0	Nitrobenzene-d5	1250	75	1640	1330	81	41 - 123	1320	79		
321-60-8	2-Fluorobiphenyl	1340	80	1640	1450	88	46 - 122	1420	85		
1718-51-0	Terphenyl-d14	1520	91	1640	1660	101	45 - 135	1610	97		
4165-62-2	Phenol-d5	2830	85	3290	2960	90	44 - 124	2970	89		
367-12-4	2-Fluorophenol	2680	80	3290	2900	88	45 - 114	2890	87		
118-79-6	2,4,6-Tribromophenol	2740	82	3290	3140	95	50 - 128	3400	102		

General Chromatography Quality Control Summary

Analytical Batch	460990	**Client ID**	MB460679			LCS460679			LCSD460679		
Prep Batch	460679	**GCAL ID**	967297			967298			967299		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/14/2011 11:50			07/14/2011 11:50			07/14/2011 11:50		
		Analytical Date	07/15/2011 11:00			07/15/2011 11:18			07/15/2011 11:36		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	778	78	50 - 150	702	70	10	40
Surrogate												
84-15-1	o-Terphenyl		41.4	83	50	45.5	91	57 - 115	35.9	72		

Analytical Batch	461457	**Client ID**	MB460890			LCS460890			LCSD460890		
Prep Batch	460890	**GCAL ID**	968194			968195			968196		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/17/2011 00:15			07/17/2011 00:15			07/17/2011 00:15		
		Analytical Date	07/18/2011 09:32			07/18/2011 09:49			07/18/2011 10:07		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		1290U	1290	33300	30200	90	50 - 124	29600	89	2	40
Surrogate												
84-15-1	o-Terphenyl		1530	92	1670	1550	93	67 - 120	1580	95		

Analytical Batch	461457	**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD		
Prep Batch	460890	**GCAL ID**	21107141203			21107141204			21107141205		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/17/2011 00:15			07/17/2011 00:15			07/17/2011 00:15		
		Analytical Date	07/18/2011 11:18			07/18/2011 11:36			07/18/2011 11:54		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		0.00	1290	33300	29400	88	50 - 124	29900	90	2	40
Surrogate												
84-15-1	o-Terphenyl		1470	88	1670	1460	88	67 - 120	1470	88		

General Chromatography Quality Control Summary

Analytical Batch 461327		**Client ID**	MB461327		LCS461327		
Prep Batch N/A		**GCAL ID**	970079		970080		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/19/2011 22:01		07/19/2011 21:13		
		Matrix	Solid		Solid		
SW-846 8015B Modified		**Units**	ug/Kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	650U	650	25000	25500	102	67 - 127
Surrogate							
106-39-8	Bromochlorobenzene	1430	95	1500	1560	104	47 - 164

Analytical Batch 461327		**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD			
Prep Batch N/A		**GCAL ID**	21107141203			21107141204			21107141205			
		Sample Type	SAMPLE			MS			MSD			
		Analytical Date	07/20/2011 03:12			07/20/2011 03:36			07/20/2011 04:00			
		Matrix	Solid			Solid			Solid			
SW-846 8015B Modified		**Units**	ug/Kg		**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics	0.00	603		23200	21200	91	67 - 127	26200	96	21	40
Surrogate												
106-39-8	Bromochlorobenzene	1410	101		1390	1440	103	47 - 164	1720	105		

Analytical Batch 461421		**Client ID**	MB461421		LCS461421		
Prep Batch N/A		**GCAL ID**	970478		970479		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/20/2011 16:11		07/20/2011 12:15		
		Matrix	Water		Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	539	108	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	30.9	103	30	34.3	114	49 - 136

General Chromatography Quality Control Summary

Analytical Batch 461421		**Client ID**	S-4 INFLUENT			967516MS			967516MSD		
Prep Batch N/A		**GCAL ID**	21107130201			970480			970481		
		Sample Type	SAMPLE			MS			MSD		
		Analytical Date	07/20/2011 16:31			07/20/2011 16:51			07/20/2011 17:13		
		Matrix	Water			Water			Water		
SW-846 8015B Modified		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics		45200	1300	50000	93800	97	67 - 171	87900	85	6	31
Surrogate												
106-39-8	Bromochlorobenzene				3000	3340	111	49 - 136	4040	135		

General Chromatography Quality Control Summary

Analytical Batch	460992	**Client ID**	MB460817			LCS460817			LCSD460817		
Prep Batch	460817	**GCAL ID**	967874			967875			967876		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/14/2011 11:50			07/14/2011 11:50			07/14/2011 11:50		
		Analytical Date	07/15/2011 11:00			07/15/2011 11:54			07/15/2011 12:12		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1640	82	50 - 150	1710	85	4	40
Surrogate												
84-15-1	o-Terphenyl		41.8	84	50	42.3	85	57 - 115	41.7	83		

Analytical Batch	461458	**Client ID**	MB460891			LCS460891			LCSD460891		
Prep Batch	460891	**GCAL ID**	968199			968200			968201		
Prep Method	3550B	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/17/2011 00:15			07/17/2011 00:15			07/17/2011 00:15		
		Analytical Date	07/18/2011 09:32			07/18/2011 10:25			07/18/2011 10:43		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		1910U	1910	66700	59300	89	47 - 120	55300	83	7	40
Surrogate												
84-15-1	o-Terphenyl		1470	88	1670	1540	92	67 - 120	1460	88		

Analytical Batch	461458	**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD		
Prep Batch	460891	**GCAL ID**	21107141203			21107141204			21107141205		
Prep Method	3550B	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/17/2011 00:15			07/17/2011 00:15			07/17/2011 00:15		
		Analytical Date	07/18/2011 11:18			07/18/2011 12:12			07/18/2011 13:05		
		Matrix	Solid			Solid			Solid		
SW-846 8015B		**Units**	**Result**	ug/Kg **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		1120	1910	66400	57000	84	47 - 120	58100	85	2	40
Surrogate												
84-15-1	o-Terphenyl		1410	85	1660	1380	83	67 - 120	1380	83		

Inorganics Quality Control Summary

Analytical Batch	460971	**Client ID**	MB460813	LCS460813	LCSD460813
Prep Batch	460813	**GCAL ID**	967848	967849	969485
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	7470A	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/17/2011 16:11	07/17/2011 16:12	07/18/2011 12:43
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00490	98	88 - 111	0.00520	104	6	20

Inorganics Quality Control Summary

Analytical Batch	460921	**Client ID**	MB460867		LCS460867		
Prep Batch	460867	**GCAL ID**	968090		968091		
Prep Method	SW-846	**Sample Type**	Method Blank		LCS		
	7471B	**Prep Date**	07/14/2011 15:00		07/14/2011 15:00		
		Analytical Date	07/15/2011 11:39		07/15/2011 11:40		
		Matrix	Solid		Solid		
SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-97-6	Mercury	0.0034U	0.0034	0.30	0.30	99	80 - 120

Analytical Batch	460921	**Client ID**	AOCU-HA66-2		AOCU-HA66--2-MS			AOCU-HA66--2-MSD				
Prep Batch	460867	**GCAL ID**	21107141203		21107141204			21107141205				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7471B	**Prep Date**	07/14/2011 15:00		07/14/2011 15:00			07/14/2011 15:00				
		Analytical Date	07/15/2011 11:48		07/15/2011 11:50			07/15/2011 11:51				
		Matrix	Solid		Solid			Solid				
SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.0053	0.0034	0.30	0.31	103	75 - 125	0.31	101	2		20

Analytical Batch	460921	**Client ID**	JM41-BG1-071311		968217MS			968217MSD				
Prep Batch	460867	**GCAL ID**	21107141801		968454			968455				
Prep Method	SW-846	**Sample Type**	SAMPLE		MS			MSD				
	7471B	**Prep Date**	07/14/2011 15:00		07/14/2011 15:00			07/14/2011 15:00				
		Analytical Date	07/15/2011 11:42		07/15/2011 11:43			07/15/2011 11:45				
		Matrix	Solid		Solid			Solid				
SW-846 7471B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**				**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**		**Limit**
7439-97-6	Mercury	0.018	0.0034	0.30	0.32	99	75 - 125	0.32	99	0.04		20

Inorganics Quality Control Summary

Analytical Batch	461307	**Client ID**	MB460866	LCS460866
Prep Batch	460866	**GCAL ID**	968088	968089
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3050B	**Prep Date**	07/14/2011 14:30	07/14/2011 14:30
		Analytical Date	07/19/2011 18:41	07/19/2011 18:48
		Matrix	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7429-90-5	Aluminum	1.90B	0.63	200	186	93	80 - 120
7440-36-0	Antimony	0.12U	0.12	20.0	20.2	101	80 - 120
7440-38-2	Arsenic	0.099B	0.088	20.0	21.5	107	80 - 120
7440-39-3	Barium	0.049B	0.011	20.0	20.7	104	80 - 120
7440-41-7	Beryllium	0.0058B	0.0028	20.0	20.2	101	80 - 120
7440-43-9	Cadmium	0.0098U	0.0098	20.0	21.5	107	80 - 120
7440-47-3	Chromium	0.012U	0.012	20.0	20.5	103	80 - 120
7440-48-4	Cobalt	0.022U	0.022	20.0	21.1	106	80 - 120
7440-50-8	Copper	0.040B	0.033	20.0	19.7	99	80 - 120
7439-89-6	Iron	3.08B	0.91	200	194	97	80 - 120
7439-92-1	Lead	0.072U	0.072	20.0	21.7	108	80 - 120
7439-95-4	Magnesium	5.26	1.34	200	216	108	80 - 120
7439-96-5	Manganese	0.066B	0.039	20.0	20.7	104	80 - 120
7440-02-0	Nickel	0.031U	0.031	20.0	21.3	107	80 - 120
7440-09-7	Potassium	7.05B	1.82	400	383	96	80 - 120
7782-49-2	Selenium	0.19U	0.19	20.0	21.6	108	80 - 120
7440-22-4	Silver	0.038B	0.035	20.0	19.7	98	80 - 120
7440-23-5	Sodium	18.4B	3.51	800	774	97	80 - 120
7440-28-0	Thallium	0.10U	0.10	20.0	21.8	109	80 - 120
7440-62-2	Vanadium	0.089B	0.050	20.0	20.4	102	80 - 120
7440-66-6	Zinc	0.33U	0.33	20.0	20.7	103	80 - 120

Analytical Batch	461307	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD
Prep Batch	460866	**GCAL ID**	21107141203	21107141204	21107141205
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/14/2011 14:30	07/14/2011 14:30	07/14/2011 14:30
		Analytical Date	07/19/2011 18:55	07/19/2011 19:01	07/19/2011 19:07
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	1450	1.26	200	2760	**653***	75 - 125	2270	**407***	20	20

Inorganics Quality Control Summary

Analytical Batch	461307	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD
Prep Batch	460866	**GCAL ID**	21107141203	21107141204	21107141205
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/14/2011 14:30	07/14/2011 14:30	07/14/2011 14:30
		Analytical Date	07/19/2011 18:55	07/19/2011 19:01	07/19/2011 19:07
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-36-0	Antimony	0.43	0.24	20.0	9.36	**45***	75 - 125	9.26	**44***	1	20
7440-38-2	Arsenic	0.68	0.18	20.0	22.0	107	75 - 125	20.5	99	7	20
7440-39-3	Barium	12.6	0.022	20.0	30.4	89	75 - 125	28.3	78	7	20
7440-41-7	Beryllium	0.10	0.0055	20.0	18.4	92	75 - 125	17.4	87	6	20
7440-43-9	Cadmium	0.15	0.020	20.0	18.5	92	75 - 125	17.0	84	8	20
7440-47-3	Chromium	1.80	0.023	20.0	21.0	96	75 - 125	19.5	88	8	20
7440-48-4	Cobalt	0.68	0.044	20.0	20.3	98	75 - 125	19.0	92	7	20
7440-50-8	Copper	2.31	0.066	20.0	22.3	100	75 - 125	20.9	93	6	20
7439-89-6	Iron	1550	1.81	200	2310	**381***	75 - 125	1840	**142***	**23***	20
7439-92-1	Lead	1.08	0.14	20.0	20.2	96	75 - 125	18.2	86	11	20
7439-95-4	Magnesium	3510	2.68	200	4670	**583***	75 - 125	4750	**620***	2	20
7439-96-5	Manganese	30.5	0.078	20.0	58.7	**141***	75 - 125	54.5	120	7	20
7440-02-0	Nickel	1.61	0.063	20.0	21.3	98	75 - 125	19.9	91	7	20
7440-09-7	Potassium	381	3.64	400	1110	**183***	75 - 125	937	**139***	17	20
7782-49-2	Selenium	0.43	0.38	20.0	21.0	103	75 - 125	19.8	97	6	20
7440-22-4	Silver	0.0	0.070	20.0	18.8	94	75 - 125	17.6	88	6	20
7440-23-5	Sodium	4150	7.02	800	5550	**175***	75 - 125	4920	97	12	20
7440-28-0	Thallium	0.38	0.20	20.0	19.4	95	75 - 125	18.3	90	6	20
7440-62-2	Vanadium	4.24	0.099	20.0	24.5	101	75 - 125	23.0	94	6	20
7440-66-6	Zinc	5.67	0.66	20.0	27.6	110	75 - 125	24.3	93	13	20

Analytical Batch	461568	**Client ID**	MB461468	LCS461468
Prep Batch	461468	**GCAL ID**	970657	970658
Prep Method	SW-846	**Sample Type**	Method Blank	LCS
	3050B	**Prep Date**	07/20/2011 14:00	07/20/2011 14:00
		Analytical Date	07/21/2011 15:38	07/21/2011 15:44
		Matrix	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7440-70-2	Calcium	19.1B	0.92	200	203	102	80 - 120

Inorganics Quality Control Summary

Analytical Batch	461568	**Client ID**	AOCU-HA66-2	AOCU-HA66--2-MS	AOCU-HA66--2-MSD
Prep Batch	461468	**GCAL ID**	21107141203	21107141204	21107141205
Prep Method	SW-846	**Sample Type**	SAMPLE	MS	MSD
	3050B	**Prep Date**	07/20/2011 14:00	07/20/2011 14:00	07/20/2011 14:00
		Analytical Date	07/21/2011 15:50	07/21/2011 15:56	07/21/2011 16:02
		Matrix	Solid	Solid	Solid

SW-846 6010B		**Units**	mg/kg	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7440-70-2	Calcium	95200	1.84	200	95200	**0.8***	75 - 125	99000	**1920***	4	20

Inorganics Quality Control Summary

Analytical Batch	461307	**Client ID**	MB460814	LCS460814	LCSD460814
Prep Batch	460814	**GCAL ID**	967853	967854	968998
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS	LCSD
	Dissolved	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/19/2011 15:47	07/19/2011 15:54	07/19/2011 16:00
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.71	94	87 - 111	4.72	94	0.2	20
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	101	88 - 108	0.49	98	3	20
7440-38-2	Arsenic	0.0029B	0.0025	0.50	0.52	104	88 - 109	0.52	104	0.3	20
7440-39-3	Barium	0.014	0.00011	0.50	0.51	102	92 - 112	0.51	102	0.2	20
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.49	99	89 - 113	0.49	99	0.02	20
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.52	104	88 - 111	0.52	104	0.01	20
7440-70-2	Calcium	0.026U	0.026	5.00	4.93	99	90 - 111	4.99	100	1	20
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	100	90 - 113	0.50	100	0.1	20
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.52	104	89 - 111	0.52	104	0.3	20
7440-50-8	Copper	0.0014U	0.0014	0.50	0.49	97	86 - 112	0.48	97	0.2	20
7439-89-6	Iron	0.038U	0.038	5.00	4.89	98	89 - 116	4.92	98	0.7	20
7439-92-1	Lead	0.0014U	0.0014	0.50	0.52	105	89 - 109	0.52	105	0.07	20
7439-95-4	Magnesium	0.018B	0.014	5.00	5.10	102	92 - 113	5.17	103	1	20
7439-96-5	Manganese	0.0051B	0.0012	0.50	0.50	101	90 - 110	0.50	101	0.2	20
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.53	105	89 - 111	0.52	105	0.4	20
7440-09-7	Potassium	0.053U	0.053	10.0	9.66	97	89 - 114	9.66	97	0.02	20
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.53	105	90 - 110	0.52	104	0.5	20
7440-22-4	Silver	0.00060U	0.00060	0.50	0.49	98	86 - 120	0.49	97	0.3	20
7440-23-5	Sodium	0.086B	0.051	20.0	19.3	96	90 - 117	19.5	97	1	20
7440-28-0	Thallium	0.0020B	0.0018	0.50	0.53	107	88 - 108	0.53	107	0.3	20
7440-62-2	Vanadium	0.0014B	0.00082	0.50	0.50	99	91 - 111	0.49	99	0.2	20
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.50	101	84 - 111	0.51	101	0.3	20

General Chemistry Quality Control Summary

Analytical Batch 460875	**Client ID**	MB460875			LCS460875		
Prep Batch N/A	**GCAL ID**	968111			968112		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/14/2011 11:53			07/14/2011 11:54		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.488	98	89.5 -110.5

Analytical Batch 460875	**Client ID**	AOCU-EB02			968053MS			968053MSD			
Prep Batch N/A	**GCAL ID**	21107141201			968113			968114			
	Sample Type	EQBK			MS			MSD			
	Analytical Date	07/14/2011 11:57			07/14/2011 11:58			07/14/2011 11:59			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		0.093	0.003	0.500	0.591	100	89.5 -110.5	0.590	99	0.2	25

Analytical Batch 461398	**Client ID**	MB461396			LCS461396		
Prep Batch 461396	**GCAL ID**	970352			970353		
Prep Method EPA 353.2	**Sample Type**	Method Blank			LCS		
	Prep Date	07/19/2011 16:00			07/19/2011 16:00		
	Analytical Date	07/20/2011 10:15			07/20/2011 10:16		
	Matrix	Solid			Solid		
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.026U	0.026	5.00	5.08	102	90 - 110

General Chemistry Quality Control Summary

Analytical Batch	461398	**Client ID**	AOCU-HA66-2			AOCU-HA66--2-MS			AOCU-HA66--2-MSD		
Prep Batch	461396	**GCAL ID**	21107141203			21107141204			21107141205		
Prep Method	EPA 353.2	**Sample Type**	SAMPLE			MS			MSD		
		Prep Date	07/19/2011 16:00			07/19/2011 16:00			07/19/2011 16:00		
		Analytical Date	07/20/2011 10:36			07/20/2011 10:38			07/20/2011 10:39		
		Matrix	Solid			Solid			Solid		
EPA 353.2 Nitrate		**Units**	mg/kg-N		**Spike**	**Result**		**Control**	**Result**		**RPD**
		Result	**RDL**		**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	9.23	0.130		25.0	36.6	109	90 - 110	36.3	108	0.7	25

DHL ANALYTICAL

August 05, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1107171

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 9 sample(s) on 7/21/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1107171

Chain of Custody Record

Submitted by		Bill to	
Client:	Gulf Coast Analytical Labs	Client:	Gulf Coast Analytical Labs
Address:	7979 GSRI Avenue	Address:	7979 GSRI Avenue
	Baton Rouge, LA 70820		Baton Rouge, LA 70820
Contact:	Dana Merrill	Contact:	Dana Merrill
Phone:	(225)769-4900	Phone:	(225)769-4900
Fax:	(225)767-5717	Fax:	(225)767-5717

Analysis Requested

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

P.O. Number: 11-0684

Project Name/Number: 4771

Sampled By:

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860)	Remarks:	Lab ID
01	W	7/12/2011	15:15		X	21107141201		1	X	AOCU-EB02	
02	S	7/12/2011	13:00		X	21107141202		1	X	AOCU-HA64-2	
03	S	7/12/2011	13:30		X	21107141203		1	X	AOCU-HA66-2	
07	S	7/12/2011	13:30		X	21107141204		1	X	AOCU-HA66-2-MS	
03	S	7/12/2011	13:30		X	21107141205		1	X	AOCU-HA66-2-MSD	
04	S	7/13/2011	9:05		X	21107141206		1	X	AOCU-HA68-2	
05	S	7/13/2011	9:25		X	21107141207		1	X	AOCU-HA69-2	
06	S	7/13/2011	9:25		X	21107141208		1	X	AOCU-HA-69-2-A	
07	S	7/13/2011	9:55		X	21107141209		1	X	AOCU-HA71-2	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days ___ 1 week X standard other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Fed Ex	7/20/11	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		7/21/11	1010
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Receiving temp 2.5 Therm #57

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

No Custody Seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

1107171

Chain of Custody Record

Submitted by		Bill to	
Client:	Gulf Coast Analytical Labs	Client:	Gulf Coast Analytical Labs
Address:	7979 GSRI Avenue Baton Rouge, LA 70820	Address:	7979 GSRI Avenue Baton Rouge, LA 70820
Contact:	Dana Merrill	Contact:	Dana Merrill
Phone:	(225)769-4900	Phone:	(225)769-4900
Fax:	(225)767-5717	Fax:	(225)767-5717

P.O. Number: 11-0684

Project Name/Number: 4771

Sampled By:

Analysis Requested: PERCHLORATE (6860)

* Our P. O. Number must appear on the Invoice.

* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Pre-servatives	No. Con-tainers	PERCHLORATE (6860)	Remarks:	Lab ID
08	S	7/13/2011	15:15		X	21107141210		1	X	AOCU-HA84	
09	S	7/13/2011	11:45		X	21107141211		1	X	AOCU-HA91	

Turn Around Time: 24 - 48 hrs ___ 3 days ___ 1 week X standard ___ other ___

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	7/21/11	1700
[signature]	[signature]	7/21/11	1012

Note: Receiving temp 2.5° Therm #57

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE. no custody seal

Matrix W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: OPLA (225) 769-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 20JUL11
ACTWGT: 68.0 LB MAN
CAD: 864080/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(512) 388--0222
INV:
PO:
REF:

RT 512 1 C
6322
07.21

REF1 FZ

FedEx Express

TRK# (020) 4932 5568 6322

THU - 21 JUL A1
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

Part # 156140-436 MPIT 02-07

60SC3/FS56/0A47

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB

Date Received: 7/21/2011

Work Order Number 1107171

Received by JB

Checklist completed by: [signature] 7/21/11 (Signature / Date)

Reviewed by SS 7-21-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☑	SM 7-22-2011
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted GCAL Date contacted: 7/21/11 Person contacted Dana

Contacted by: JBarker Regarding: 2110714210 + 2110714211

Comments: Per Dana, will send a COC for these two samples, please add to this work order.

Corrective Action Logged in for requested analysis.

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

John DuPont
Signature

08/05/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 8/5/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1107171
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 8/5/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1107171

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
ICS-110727		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst 8/3/11 Date

2nd Level Review 8/3/11 Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
1107168-03A		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst — 8/3/11 Date

2nd Level Review — 8/3/11 Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/27/2011 16:42
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Average 2116

SH 8/4/11

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

SH 8/3/11

8/3/11 SH

Internal Standard Summary

Sequence Name:	110726_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110727	2198.723
LCVL1-110727	2275.425
ICS1-110727	2389.928
LRB3-110727	2492.483
LCS-47407	1899.214
MB-47407	2002.376
1107169-10A	1858.658
1107170-02A	1779.491
1107171-01A	1894.365
1107116-34A	1781.393
1107116-34A	1596.240
1107170-01A	1923.795
1107170-01AMS	1952.528
1107170-01AMSD	2037.454
CCV1-110727	1965.330
LRB4-110727	1671.368
LCVL2-110727	2387.183

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SJ
8/23/11

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/28/2011 9:21
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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Internal Standard Summary

Sequence Name:	110728_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110728	1987.605
LCVL1-110728	1623.803
ICS-110726	1674.810
LRB1-110728	2042.303
LCS-47445	1737.788
MB-47445	1798.954
1107115-23A	1531.744
1107115-23A	1264.770
1107168-01A	1660.174
1107168-02A	1687.163
1107168-03A	1761.626
1107168-04A	1672.380
1107168-05A	1647.878
1107168-06A	1837.325
1107168-07A	1698.739
1107168-04AMS	1484.539

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1107168-04AMSD	1629.799
CCV1-110728	1465.324
LCVL2-110728	1598.693
LRB2-110728	1703.970
LCS-47446	1745.134
MB-47446	1862.168
1107169-01A	1856.633
1107169-02A	1918.114
1107169-03A	1785.668
1107169-04A	1896.413
1107169-05A	2920.568
1107169-06A	2903.445
1107169-07A	2832.597
1107169-08A	2707.413
1107169-09A	2276.764
1107170-03A	2192.373
CCV2-110728	1754.324
LCVL3-110728	2175.384
LRB3-110728	1459.588
1107170-04A	689.510
1107171-02A	1849.075
1107171-03A	2110.881
1107171-04A	1469.902
1107171-05A	1753.168
1107171-06A	1661.917
1107171-07A	1237.265
1107171-08A	1210.517
1107171-09A	1322.133
1107171-03AMS	1108.983
1107171-03AMSD	1172.345
CCV3-110728	1102.353
LCVL4-110728	1274.465
LRB4-110728	1408.374

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	8/1/2011 10:41
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2546.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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8-3-2011

Internal Standard Summary

Sequence Name:	110801_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B	
LRB1-110727	2898.720	
ClO4_0.3_1	2145.881	
ClO4_0.5_1	2548.699	
ClO4_1.0_1	2323.890	
ClO4_2.0_1	2120.738	
ClO4_5.0_1	1968.739	
ClO4_7.0_1	2018.666	
CLO4_10.0_1	1682.393	
LRB2-110727	2036.081	
SSCV-110727	2049.728	
ICV1-110801	1798.323	
ICS1-110801	1773.133	
LRB1-110801	1410.887	
LCVL1-110801	1772.208	
LCS-47447	2273.157	
MB-47447	2191.263	
1107173-01B	1466.218	
1107173-02B	1092.070	
1107173-03B	1828.047	
1107173-04B	911.988	DNR
1107173-05B	1240.178	
1107173-06B	1182.566	
1107173-07B	1048.364	
1107173-08B	1573.440	
1107173-09B	631.498	DNR
1107173-10B	1419.320	

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CCV1-110801	1160.073
LCVL2-110801	1298.608
LRB2-110801	1169.724
1107173-11B	478.441
1107173-12B	1880.248
1107173-13B	680.769
1107173-14B	1396.781
1107173-15B	1078.982
1107173-16B	1824.038
1107173-17B	1286.953
1107173-18B	1150.469
1107173-18BMS	1343.593
1107173-18BMSD	1394.345
CCV2-110801	1925.542
LCVL3-110801	2193.946
LRB3-110801	2123.831
1107170-04A	1771.945
1107171-06A	2365.564
1107173-03B	2261.733
1107173-04B	2246.378
1107173-07B	2340.358
1107173-09B	1990.662
1107173-10B	1736.996
1107171-03AMS	2175.970
1107171-03AMSD	2280.618
CCV3-110801	1927.376
LCVL4-110801	1967.275
LRB4-110801	1812.568
1107170-04A	1677.303
1107173-11B	1873.588
1107173-13B	2064.816
1107173-14B	1779.561
1107173-15B	1577.310
1107173-16B	1637.512
1107173-17B	1456.890
1107173-18B	1934.067
1107173-18BMS	1978.729
1107173-18BMSD	1761.755
CCV4-110801	1567.520
LCVL5-110801	1844.080
LRB5-110801	1656.783

DNR
DNR

SH
8/5/11

CLIENT:	GCAL LAB	
Project:	DoD Perchlorate	**CASE NARRATIVE**
Lab Order:	1107171	

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method E332.0 or SW6860 - Perchlorate Analysis (Parameter is ELAP Accredited but not NELAC Certified)
Method D2216 - Percent Moisture

Exception Report R1-01

The samples were received on and log-in performed on 7/21/2011. A total of 9 samples were received and all were analyzed. Samples 21107141210 and 21107141211 were included in the cooler but not listed on the Chain-of-Custody (COC). An additional COC was sent by the client via fax that included these additional samples. The samples arrived in good condition and were properly packaged.

Exception Report S5-02

For Perchlorate Analysis, some samples and/or standards were manually integrated. Please refer to the table on page 12 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

Communication via email between Dana Merrill of GCAL and John DuPont of DHL on 6/28/2011 and 7/20/2011, regarding project specifications have been files in this workorder folder.

This sample delivery group arrived at DHL Analytical 7/21/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107171

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1107171-01	21107141201		07/12/11 03:15 PM	07/21/11
1107171-02	21107141202		07/12/11 01:00 PM	07/21/11
1107171-03	21107141203		07/12/11 01:30 PM	07/21/11
1107171-04	21107141206		07/13/11 09:05 AM	07/21/11
1107171-05	21107141207		07/13/11 09:25 AM	07/21/11
1107171-06	21107141208		07/13/11 09:25 AM	07/21/11
1107171-07	21107141209		07/13/11 09:55 AM	07/21/11
1107171-08	21107141210		07/13/11 11:05 AM	07/21/11
1107171-09	21107141211		07/13/11 11:45 AM	07/21/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107171

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1107171-01A	21107141201	07/12/11 03:15 PM	Aqueous	SW6860	Perchlorate Prep	07/27/11 01:35 PM	47407
1107171-02A	21107141202	07/12/11 01:00 PM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141202	07/12/11 01:00 PM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-03A	21107141203	07/12/11 01:30 PM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141203	07/12/11 01:30 PM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-04A	21107141206	07/13/11 09:05 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141206	07/13/11 09:05 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-05A	21107141207	07/13/11 09:25 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141207	07/13/11 09:25 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-06A	21107141208	07/13/11 09:25 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141208	07/13/11 09:25 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141208	07/13/11 09:25 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-07A	21107141209	07/13/11 09:55 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141209	07/13/11 09:55 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-08A	21107141210	07/13/11 11:05 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141210	07/13/11 11:05 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490
1107171-09A	21107141211	07/13/11 11:45 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107141211	07/13/11 11:45 AM	Soil	D2216	Moisture Preparation	07/29/11 05:15 PM	47490

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107171

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1107171-01A	21107141201	Aqueous	SW6860	Perchlorate - Water	47407	1	07/27/11 07:25 PM	ICMS_110727A
1107171-02A	21107141202	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141202	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 11:44 AM	ICMS_110728A
1107171-03A	21107141203	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141203	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 12:01 PM	ICMS_110728A
1107171-04A	21107141206	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141206	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 12:18 PM	ICMS_110728A
1107171-05A	21107141207	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141207	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 12:35 PM	ICMS_110728A
1107171-06A	21107141208	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141208	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 12:52 PM	ICMS_110728A
	21107141208	Soil	SW6860	Perchlorate - Soil	47446	1	08/02/11 12:14 AM	ICMS_110801A
1107171-07A	21107141209	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141209	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 01:09 PM	ICMS_110728A
1107171-08A	21107141210	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141210	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 01:26 PM	ICMS_110728A
1107171-09A	21107141211	Soil	D2216	Percent Moisture	47490	1	08/01/11 08:35 AM	PMOIST_110729A
	21107141211	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 01:43 PM	ICMS_110728A

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141201
Lab ID: 1107171-01
Collection Date: 07/12/11 03:15 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	07/27/11 07:25 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141202
Lab ID: 1107171-02
Collection Date: 07/12/11 01:00 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00154	0.00154	0.00768	NU	mg/Kg-dry	1	07/29/11 11:44 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	35.1	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141203
Lab ID: 1107171-03
Collection Date: 07/12/11 01:30 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00146	0.00146	0.00728	NU	mg/Kg-dry	1	07/29/11 12:01 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	31.3	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141206
Lab ID: 1107171-04
Collection Date: 07/13/11 09:05 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00149	0.00149	0.00743	NU	mg/Kg-dry	1	07/29/11 12:18 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	33.3	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141207
Lab ID: 1107171-05
Collection Date: 07/13/11 09:25 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00749	0.00153	0.00766	JN	mg/Kg-dry	1	07/29/11 12:35 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	35.3	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141208
Lab ID: 1107171-06
Collection Date: 07/13/11 09:25 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0137	0.00150	0.00752	N	mg/Kg-dry	1	08/02/11 12:14 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	34.7	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141209
Lab ID: 1107171-07
Collection Date: 07/13/11 09:55 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00738	0.00147	0.00734	N	mg/Kg-dry	1	07/29/11 01:09 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	33.1	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141210
Lab ID: 1107171-08
Collection Date: 07/13/11 11:05 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00134	0.00134	0.00671	NU	mg/Kg-dry	1	07/29/11 01:26 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	25.5	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107171

Client Sample ID: 21107141211
Lab ID: 1107171-09
Collection Date: 07/13/11 11:45 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.00128	0.00128	0.00640	NU	mg/Kg-dry	1	07/29/11 01:43 PM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	23.2	0	0		WT%	1	08/01/11 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	LCS-47407	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	LCS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:15 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000323	0.000300	0.000300	0	108	85	115			N

Sample ID:	MB-47407	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MBLK	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:32 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1107170-01AMS	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 08:54 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0698	0.0148	0.0148	0.0529	114	85	115			N

Sample ID:	1107170-01AMSD	Batch ID:	47407		TestNo:		SW6860		Units:		mg/L
SampType:	MSD	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:12 PM		Prep Date:		07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0659	0.0148	0.0148	0.0529	87.7	85	115	5.78	20	N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	ICV1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 04:42 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00206	0.000300	0.00200	0	103	85	115			N

Sample ID:	LCVL1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:00 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000240	0.000300	0.000200	0	120	70	130			N

Sample ID:	ICS1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:18 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000257	0.000300	0.000300	0	85.7	85	115			N

Sample ID:	CCV1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:29 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.000300	0.00500	0	98.4	85	115			N

Sample ID:	LCVL2-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 10:05 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000207	0.000300	0.000200	0	104	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	LCS-47446	Batch ID:	47446		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 04:57 PM			Prep Date:	07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00505	0.00500	0.00450	0	112	85	115			N

Sample ID:	MB-47446	Batch ID:	47446		TestNo:		SW6860			Units:	mg/Kg
SampType:	MBLK	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 05:15 PM			Prep Date:	07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00100	0.00500								NU

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	ICV1-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	ICV	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 09:21 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00195	0.00500	0.00200	0	97.3	85	115			N

Sample ID:	LCVL1-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 09:38 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000208	0.00500	0.000200	0	104	70	130			N

Sample ID:	ICS-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	ICS	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 10:57 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000339	0.00500	0.000300	0	113	70	130			N

Sample ID:	LCVL2-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/28/11 04:04 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000252	0.00500	0.000200	0	126	70	130			N

Sample ID:	CCV2-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 10:19 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00486	0.00500	0.00500	0	97.2	80	120			N

Sample ID:	LCVL3-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 10:53 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000217	0.00500	0.000200	0	109	70	130			N

Sample ID:	CCV3-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 02:34 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.00520	0.00500	0.00500	0	104	80	120			N

Sample ID:	LCVL4-110728	Batch ID:	R56137	TestNo:	SW6860	Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A	Analysis Date:	07/29/11 03:08 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate	0.000202	0.00500	0.000200	0	101	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110801A

Sample ID:	1107171-03AMS	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MS	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:24 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00743	0.00725	0.00653	0	114	75	125			N

Sample ID:	1107171-03AMSD	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:41 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00742	0.00712	0.00641	0	116	75	125	0.183	20	N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110801A

Sample ID:	ICV1-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	ICV	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:41 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00186	0.00500	0.00200	0	93.0	85	115			N

Sample ID:	ICS1-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	ICS	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:58 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000337	0.00500	0.000300	0	112	70	130			N

Sample ID:	LCVL1-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 11:32 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000236	0.00500	0.000200	0	118	70	130			N

Sample ID:	CCV1-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 03:16 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00506	0.00500	0.00500	0	101	80	120			N

Sample ID:	LCVL2-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 03:33 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000224	0.00500	0.000200	0	112	70	130			N

Sample ID:	CCV2-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:15 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00493	0.00500	0.00500	0	98.5	80	120			N

Sample ID:	LCVL3-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:49 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000198	0.00500	0.000200	0	99.2	70	130			N

Sample ID:	CCV3-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	CCV	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:58 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00499	0.00500	0.00500	0	99.8	80	120			N

Sample ID:	LCVL4-110801	Batch ID:	R56138		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 09:32 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000238	0.00500	0.000200	0	119	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107171
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_110729A

Sample ID:	1107228-02ADUP	Batch ID:	47490	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_110729A	Analysis Date:	08/01/11 08:35 AM	Prep Date:	07/29/11

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	17.1	0	0	14.21				18.3	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

DHL Analytical

Date: 08/05/11

Lab Order: 1107171
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110727A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110727	-----	SW6860	R56134	1	07/27/11 04:42 PM	
LCVL1-110727	-----	SW6860	R56134	1	07/27/11 05:00 PM	
ICS1-110727	-----	SW6860	R56134	1	07/27/11 05:18 PM	
LRB3-110727	-----	SW6860	R56134	1	07/27/11 05:36 PM	
LCS-47407	-----	SW6860	47407	1	07/27/11 06:15 PM	07/27/11
MB-47407	-----	SW6860	47407	1	07/27/11 06:32 PM	07/27/11
1107171-01A	21107141201	SW6860	47407	1	07/27/11 07:25 PM	07/27/11
1107170-01AMS	-----	SW6860	47407	1	07/27/11 08:54 PM	07/27/11
1107170-01AMSD	-----	SW6860	47407	1	07/27/11 09:12 PM	07/27/11
CCV1-110727	-----	SW6860	R56134	1	07/27/11 09:29 PM	
LRB4-110727	-----	SW6860	R56134	1	07/27/11 09:47 PM	
LCVL2-110727	-----	SW6860	R56134	1	07/27/11 10:05 PM	

DHL Analytical

Date: 08/05/11

Lab Order: 1107171
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110728A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110728	-----	SW6860	R56137	1	07/28/11 09:21 AM	
LCVL1-110728	-----	SW6860	R56137	1	07/28/11 09:38 AM	
ICS-110728	-----	SW6860	R56137	1	07/28/11 10:57 AM	
LRB1-110728	-----	SW6860	R56137	1	07/28/11 11:15 AM	
LCVL2-110728	-----	SW6860	R56137	1	07/28/11 04:04 PM	
LRB2-110728	-----	SW6860	R56137	1	07/28/11 04:39 PM	
LCS-47446	-----	SW6860	47446	1	07/28/11 04:57 PM	07/28/11
MB-47446	-----	SW6860	47446	1	07/28/11 05:15 PM	07/28/11
CCV2-110728	-----	SW6860	R56137	1	07/29/11 10:19 AM	
LCVL3-110728	-----	SW6860	R56137	1	07/29/11 10:53 AM	
LRB3-110728	-----	SW6860	R56137	1	07/29/11 11:10 AM	
1107171-02A	21107141202	SW6860	47446	1	07/29/11 11:44 AM	07/28/11
1107171-03A	21107141203	SW6860	47446	1	07/29/11 12:01 PM	07/28/11
1107171-04A	21107141206	SW6860	47446	1	07/29/11 12:18 PM	07/28/11
1107171-05A	21107141207	SW6860	47446	1	07/29/11 12:35 PM	07/28/11
1107171-06A	21107141208	SW6860	47446	1	07/29/11 12:52 PM	07/28/11
1107171-07A	21107141209	SW6860	47446	1	07/29/11 01:09 PM	07/28/11
1107171-08A	21107141210	SW6860	47446	1	07/29/11 01:26 PM	07/28/11
1107171-09A	21107141211	SW6860	47446	1	07/29/11 01:43 PM	07/28/11
CCV3-110728	-----	SW6860	R56137	1	07/29/11 02:34 PM	
LCVL4-110728	-----	SW6860	R56137	1	07/29/11 03:08 PM	
LRB4-110728	-----	SW6860	R56137	1	07/29/11 03:25 PM	

DHL Analytical

Date: 08/05/11

Lab Order: 1107171
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: ICMS_110801A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
ICV1-110801	-----	SW6860	R56138	1	08/01/11 10:41 AM	
ICS1-110801	-----	SW6860	R56138	1	08/01/11 10:58 AM	
LRB1-110801	-----	SW6860	R56138	1	08/01/11 11:15 AM	
LCVL1-110801	-----	SW6860	R56138	1	08/01/11 11:32 AM	
CCV1-110801	-----	SW6860	R56138	1	08/01/11 03:16 PM	
LCVL2-110801	-----	SW6860	R56138	1	08/01/11 03:33 PM	
LRB2-110801	-----	SW6860	R56138	1	08/01/11 03:50 PM	
CCV2-110801	-----	SW6860	R56138	1	08/01/11 10:15 PM	
LCVL3-110801	-----	SW6860	R56138	1	08/01/11 10:49 PM	
LRB3-110801	-----	SW6860	R56138	1	08/01/11 11:40 PM	
1107171-06A	21107141208	SW6860	47446	1	08/02/11 12:14 AM	07/28/11
1107171-03AMS	21107141203MS	SW6860	47446	1	08/02/11 08:24 AM	07/28/11
1107171-03AMSD	21107141203MSD	SW6860	47446	1	08/02/11 08:41 AM	07/28/11
CCV3-110801	-----	SW6860	R56138	1	08/02/11 08:58 AM	
LCVL4-110801	-----	SW6860	R56138	1	08/02/11 09:32 AM	

DHL Analytical

Date: 08/05/11

Lab Order: 1107171
Client: GCAL LAB
Project: DoD Perchlorate

Sequence Report

Run ID: PMOIST_110729A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date
1107171-02A	21107141202	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-03A	21107141203	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-04A	21107141206	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-05A	21107141207	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-06A	21107141208	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-07A	21107141209	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-08A	21107141210	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107171-09A	21107141211	D2216	47490	1	08/01/11 08:35 AM	07/29/11
1107228-02ADUP	-----	D2216	47490	1	08/01/11 08:35 AM	07/29/11

NATIONVIEW

Nationview / 4771 / 211071412 / 7/21/11

Project No: 8090006.02.010

COC Number(1): 071311-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Sample Analysis Requested (5): Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7470A)	Nitrate (353.2)	Perchlorate (6860)						Quality Assurance Samples (6): Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
AOCU-EB02		12072011	1515	-	EB	1	WQ	6		X		X	X	X	X									1
				-																				
				-																				
				-																				
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				-																				
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				-																				
				-																				

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. J. Moore	7/13/11	1500	1.		
2. Fed Ex			2. Glaucier	7/14/11	8:55
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Method of Shipment: FedEx Express

Analytical Lab: GCAL

Lab Recipient:

Shipped No.:

Airbill Number: 7972 9763 7883

Delivery Location: Baton Rouge, LA

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Fed Ex # 7972 9763 7883

28

NATIONVIEW

Nationview/ 4771/ 211071412/ 7/21/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 07131-02

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-HA64-2	AOCU-HA64	12072011	1300	1 - 2	N	1	SO	3		X		X	X	X	X										2 2
AOCU-HA66-2	AOCU-HA66	12072011	1330	1 - 2	N	1	SO	3		X		X	X	X	X										2 3
AOCU-HA66-2-MS	AOCU-HA66	12072011	1330	1 - 2	MS	1	SO	3		X		X	X	X	X										2 4
AOCU-HA66-2-MSD	AOCU-HA66	12072011	1330	1 - 2	SD	1	SO	3		X		X	X	X	X										2 5
AOCU-HA68-2	AOCU-HA68	13072011	0905	1 - 2	N	1	SO	3		X		X	X	X	X										2 6
AOCU-HA69-2	AOCU-HA69	13072011	0925	1 - 2	N	1	SO	3		X		X	X	X	X										2 7
AOCU-HA69-2-A	AOCU-HA69	13072011	0925	1 - 2	FD	1	SO	3		X		X	X	X	X										2 8
AOCU-HA71-2	AOCU-HA71	13072011	0955	1 - 2	N	1	SO	3		X		X	X	X	X										2 9
				-																					
				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/13/11	1500	1.		
2. Fed Ex			2. [signature]	7/14/11	8:55
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7949 6648 1933

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.9

7949 6648 1933

NATIONVIEW

Nationview / 4771 / 211071412 / 7/21/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 071311-03

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-HA64-2	AOCU-HA64	12072011	1300	1-2	N	1	SO	5	X		X					X									3 2
AOCU-HA66-2	AOCU-HA66	12072011	1330	1-2	N	1	SO	5	X		X					X									3 3
AOCU-HA66-2-MS	AOCU-HA66	12072011	1330	1-2	MS	1	SO	5	X		X					X									3 4
AOCU-HA66-2-MSD	AOCU-HA66	12072011	1330	1-2	SD	1	SO	5	X		X					X									3 5
AOCU-EB02		12072011	1515	-	EB	1	WQ	5	X		X														3 1
AOCU-HA68-2	AOCU-HA68	12072011	0905	1-2	N	1	SO	5	X		X					X									3 6
AOCU-HA69-2	AOCU-HA69	12072011	0925	1-2	N	1	SO	5	X		X					X									3 7
AOCU-HA69-2-A	AOCU-HA69	12072011	0925	1-2	FD	1	SO	5	X		X					X									3 8
AOCU-HA71-2	AOCU-HA71	12072011	0955	1-2	N	1	SO	5	X		X					X									3 9
Trip Blank		12072011	1300	-	TB	1	WQ	3	X																3 1
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/13/11	1500	1.		
2. Fed Ex			2. Gaucier	7/14/11	8:55
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7972 97632263

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7972 9763 2263

5.1

NATIONVIEW

Nationview / 4771 / 211071412 / 7/21/11

Page: 1 of 1

Project No: 8090006.02.010

COC Number(1): 07311-04

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)			Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
								Sample Analysis Requested (5)														Quality Assurance Samples (6)			
AOCU-HA84-10	AOCU-HA84	13072011	1105	9-10	N	1	SO	8	X	X	X	X	X	X	X	X									4 10
AOCU-HA91-2	AOCU-HA91	13072011	1145	1-2	N	1	SO	8	X	X	X	X	X	X	X	X									4 11
Trip Blank		13072011	1105	-	TB	1	WQ	3	X																4 12
				-																					
				-																					
				-																					
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				-																					
				-																					

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. JH Moore	7/13/11	1500	1.		
2. Fed Ex			2. C Saucier	7/14/11	8:55
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7949 6649 9887

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

5.4

Fed Ex # 7949 6649 9887

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211071412

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 2 - Soil

Received by: Carstens, Jennifer K.

Received Date/Time: 7/14/2011 8:55:00 AM

Samples Received via: METP

Number of Coolers Received: 4

Cooler tracking numbers(s): 7972 9763 7883, 7949 6648 1933, 7949 6649 9887, 7972 9763 2263

Cooler temperature(s): 2.8, 5.9, 5.4, 5.1

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 08/17/2011

GCAL Report 211071505

Deliver To	NationView, LLC 445 Union Blvd. Suite 129 Denver, CO 80228 303-597-2450
Attn	Jim Moore

Project AOC-U RFI Invest / Holloman

CASE NARRATIVE

Client: NationView, LLC **Report:** 211071505

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 461062, the LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds. The LCS and/or LCSD recoveries are above the upper control limit for Bromochloromethane, Dibromomethane, cis-1,2-Dichloroethene, n-Hexane and Ethyl methacrylate. The LCS/LCSD RPD is above the control limit for tert-Butylbenzene and Acetonitrile. Trichloroethene, Carbon Disulfide, 1,1,2-Trichlorotrifluoroethane, Acrolein, Hexane, Cyclohexane, Bromochloromethane, Carbon Tetrachloride, 1,1-Dichloropropane and Methyl Cyclohexane exhibited % drift values of +22, +22, +22, +46, +39, +29, +24, +21, +23 and +29. These compounds were not detected during sample analysis.

METALS

In the SW-846 6010B analysis for prep batch 460814, Barium was detected in the method blank; however, Barium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

CONVENTIONALS

In the EPA 353.2 analysis, samples 21107150501 (AOCU-GW91-R), 21107150503 (AOCU-SA01) and 21107150504 (AOCU-SA02) had to be diluted in order to bracket the Nitrate + Nitrite and/or Nitrite concentrations within the calibration range of the instrument. The Nitrate is based on the difference between the Nitrate + Nitrite and the Nitrite. The dilution is reflected in the elevated reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____

Robyn Migues
Technical Director
GCAL REPORT 211071505

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150501	AOCU-GW91-R	Water	07/13/2011 13:25	07/15/2011 09:15
21107150502	AOCU-EB03	Water	07/13/2011 14:20	07/15/2011 09:15
21107150503	AOCU-SA01	Solid	07/14/2011 08:45	07/15/2011 09:15
21107150504	AOCU-SA02	Solid	07/14/2011 09:10	07/15/2011 09:15
21107150505	AOCU-SA03	Water	07/14/2011 09:45	07/15/2011 09:15
21107150506	TRIP BLANK	Water	07/13/2011 13:25	07/15/2011 09:15

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150501	**AOCU-GW91-R**	Water	07/13/2011 13:25	07/15/2011 09:15

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	7.92	0.200	0.052	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

SW-846 7470A Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	Mercury	0.00031	0.00020	0.000081	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-27-4	Bromodichloromethane	7.08	5	0.071	ug/L
67-66-3	Chloroform	7.68	5	0.062	ug/L
124-48-1	Dibromochloromethane	4.63J	5	0.133	ug/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-39-3	Barium	0.0022B	0.010	0.00011	mg/L
7440-43-9	Cadmium	0.00012B	0.0050	0.00011	mg/L
7440-48-4	Cobalt	0.0030B	0.010	0.00040	mg/L
7440-50-8	Copper	0.0019B	0.010	0.0014	mg/L
7439-95-4	Magnesium	0.56	0.10	0.014	mg/L
7439-96-5	Manganese	0.0057B	0.015	0.0012	mg/L
7440-02-0	Nickel	0.00097B	0.040	0.00096	mg/L
7440-09-7	Potassium	6.25	0.50	0.053	mg/L
7440-23-5	Sodium	55.6	1.00	0.051	mg/L
7440-28-0	Thallium	0.0027B	0.020	0.0018	mg/L
7440-62-2	Vanadium	0.0029B	0.020	0.00082	mg/L

SW-846 6010B Dissolved

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	Calcium	0.82	0.10	0.026	mg/L

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.110	0.010	0.003	mg/L-N

SW-846 8015B

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	Oil Range Organics	77.6J	125	45.7	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150503	**AOCU-SA01**	Solid	07/14/2011 08:45	07/15/2011 09:15

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**223**	**31.8**	**1.66**	**mg/kg-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150504	**AOCU-SA02**	Solid	07/14/2011 09:10	07/15/2011 09:15

EPA 353.2 Nitrate

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**477**	**175**	**9.12**	**mg/kg-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150501	**AOCU-GW91-R**	Water	07/13/2011 13:25	07/15/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/15/2011 11:26	AEL	460988

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**7.92**	**0.200**	**0.052**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 12:44	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	**Bromodichloromethane**	**7.08**	**5**	**0.071**	**ug/L**
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 12:44	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	**Chloroform**	**7.68**	**5**	**0.062**	**ug/L**
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	**Dibromochloromethane**	**4.63J**	**5**	**0.133**	**ug/L**
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	54.2	ug/L	108	87 - 116
2037-26-5	Toluene d8	50	45	ug/L	90	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	76 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

Library Search Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 12:44	SLR	461581

CAS#	Parameter	Result	Retention	Units
100-44-7	Benzyl Chloride ND	ND		ug/L
1476-11-5	cis-1,4-Dichloro-2-butene ND	ND		ug/L

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 08:45	461012	3510C	1	07/19/2011 17:04	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
120-82-1	1,2,4-Trichlorobenzene	0.234U	10.0	0.234	ug/L
95-50-1	1,2-Dichlorobenzene	0.259U	10.0	0.259	ug/L
541-73-1	1,3-Dichlorobenzene	0.274U	10.0	0.274	ug/L
106-46-7	1,4-Dichlorobenzene	0.255U	10.0	0.255	ug/L
95-95-4	2,4,5-Trichlorophenol	0.317U	10.0	0.317	ug/L
88-06-2	2,4,6-Trichlorophenol	0.275U	10.0	0.275	ug/L
120-83-2	2,4-Dichlorophenol	0.217U	10.0	0.217	ug/L
105-67-9	2,4-Dimethylphenol	0.694U	10.0	0.694	ug/L
51-28-5	2,4-Dinitrophenol	2.60U	10.0	2.60	ug/L
121-14-2	2,4-Dinitrotoluene	0.263U	10.0	0.263	ug/L
606-20-2	2,6-Dinitrotoluene	0.352U	10.0	0.352	ug/L
91-58-7	2-Chloronaphthalene	0.221U	10.0	0.221	ug/L
95-57-8	2-Chlorophenol	0.276U	10.0	0.276	ug/L
91-57-6	2-Methylnaphthalene	0.255U	10.0	0.255	ug/L
88-74-4	2-Nitroaniline	0.198U	10.0	0.198	ug/L
88-75-5	2-Nitrophenol	0.357U	10.0	0.357	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.297U	10.0	0.297	ug/L
99-09-2	3-Nitroaniline	0.226U	10.0	0.226	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	10.0	1.98	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.337U	10.0	0.337	ug/L
59-50-7	4-Chloro-3-methylphenol	0.234U	10.0	0.234	ug/L
106-47-8	4-Chloroaniline	0.463U	10.0	0.463	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.268U	10.0	0.268	ug/L
100-01-6	4-Nitroaniline	0.221U	10.0	0.221	ug/L
100-02-7	4-Nitrophenol	1.83U	10.0	1.83	ug/L
83-32-9	Acenaphthene	0.268U	10.0	0.268	ug/L
208-96-8	Acenaphthylene	0.303U	10.0	0.303	ug/L
120-12-7	Anthracene	0.316U	10.0	0.316	ug/L
92-87-5	Benzidine	3.92U	50.0	3.92	ug/L
56-55-3	Benzo(a)anthracene	0.316U	10.0	0.316	ug/L
50-32-8	Benzo(a)pyrene	0.125U	10.0	0.125	ug/L
205-99-2	Benzo(b)fluoranthene	0.217U	10.0	0.217	ug/L
191-24-2	Benzo(g,h,i)perylene	0.215U	10.0	0.215	ug/L
207-08-9	Benzo(k)fluoranthene	0.236U	10.0	0.236	ug/L
65-85-0	Benzoic acid	0.910U	10.0	0.910	ug/L
100-51-6	Benzyl alcohol	0.355U	10.0	0.355	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.290U	10.0	0.290	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.288U	10.0	0.288	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.257U	10.0	0.257	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.191U	10.0	0.191	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

SW-846 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 08:45	461012	3510C	1	07/19/2011 17:04	JEW	461317

CAS#	Parameter	Result	RDL	MDL	Units
85-68-7	Butyl benzyl phthalate	0.165U	10.0	0.165	ug/L
218-01-9	Chrysene	0.433U	10.0	0.433	ug/L
84-74-2	Di-n-butyl phthalate	0.189U	10.0	0.189	ug/L
117-84-0	Di-n-octyl phthalate	0.167U	10.0	0.167	ug/L
53-70-3	Dibenz(a,h)anthracene	0.217U	10.0	0.217	ug/L
132-64-9	Dibenzofuran	0.227U	10.0	0.227	ug/L
84-66-2	Diethyl phthalate	0.303U	10.0	0.303	ug/L
131-11-3	Dimethyl phthalate	0.255U	10.0	0.255	ug/L
206-44-0	Fluoranthene	0.267U	10.0	0.267	ug/L
86-73-7	Fluorene	0.288U	10.0	0.288	ug/L
118-74-1	Hexachlorobenzene	0.249U	10.0	0.249	ug/L
87-68-3	Hexachlorobutadiene	0.192U	10.0	0.192	ug/L
77-47-4	Hexachlorocyclopentadiene	0.174U	10.0	0.174	ug/L
67-72-1	Hexachloroethane	0.299U	10.0	0.299	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	10.0	0.157	ug/L
78-59-1	Isophorone	0.380U	10.0	0.380	ug/L
91-20-3	Naphthalene	0.293U	10.0	0.293	ug/L
98-95-3	Nitrobenzene	0.329U	10.0	0.329	ug/L
87-86-5	Pentachlorophenol	0.168U	10.0	0.168	ug/L
85-01-8	Phenanthrene	0.304U	10.0	0.304	ug/L
108-95-2	Phenol	0.150U	10.0	0.150	ug/L
129-00-0	Pyrene	0.486U	10.0	0.486	ug/L
1319-77-3MP	m,p-Cresol	0.352U	10.0	0.352	ug/L
621-64-7	n-Nitrosodi-n-propylamine	0.304U	10.0	0.304	ug/L
86-30-6	n-Nitrosodiphenylamine	0.364U	10.0	0.364	ug/L
95-48-7	o-Cresol	0.329U	10.0	0.329	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	37.1	ug/L	74	52 - 120
321-60-8	2-Fluorobiphenyl	50	38.1	ug/L	76	16 - 128
1718-51-0	Terphenyl-d14	50	41.2	ug/L	82	43 - 138
4165-62-2	Phenol-d5	100	25.2	ug/L	25	10 - 120
367-12-4	2-Fluorophenol	100	38.5	ug/L	39	10 - 120
118-79-6	2,4,6-Tribromophenol	100	67.2	ug/L	67	52 - 121

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 10:45	461145	3510C	1	07/18/2011 18:45	DLB	461355

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-4	Diesel Range Organics	44.2U	125	44.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	47.8	ug/L	96	57 - 115

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

SW-846 8015B Modified

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2011 19:57	JAR	461421

CAS#	Parameter	Result	RDL	MDL	Units
8006-61-9	Gasoline Range Organics	13.0U	100	13.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
106-39-8	Bromochlorobenzene	30	30.8	ug/L	103	49 - 136

SW-846 8015B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/18/2011 10:45	461146	3510C	1	07/18/2011 18:45	DLB	461357

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-00-44	**Oil Range Organics**	**77.6J**	**125**	**45.7**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
84-15-1	o-Terphenyl	50	48.2	ug/L	96	57 - 115

SW-846 7470A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/15/2011 16:45	460813	SW-846 7470A Dissolved	1	07/17/2011 16:20	BNB	460971

CAS#	Parameter	Result	RDL	MDL	Units
7439-97-6	**Mercury**	**0.00031**	**0.00020**	**0.000081**	**mg/L**

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/15/2011 16:45	460814	SW-846 3005 Dissolved	1	07/19/2011 16:21	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7429-90-5	Aluminum	0.044U	0.20	0.044	mg/L
7440-36-0	Antimony	0.0040U	0.060	0.0040	mg/L
7440-38-2	Arsenic	0.0025U	0.010	0.0025	mg/L
7440-39-3	**Barium**	**0.0022B**	**0.010**	**0.00011**	**mg/L**
7440-41-7	Beryllium	0.00011U	0.0050	0.00011	mg/L
7440-43-9	**Cadmium**	**0.00012B**	**0.0050**	**0.00011**	**mg/L**
7440-47-3	Chromium	0.00034U	0.010	0.00034	mg/L
7440-48-4	**Cobalt**	**0.0030B**	**0.010**	**0.00040**	**mg/L**
7440-50-8	**Copper**	**0.0019B**	**0.010**	**0.0014**	**mg/L**
7439-89-6	Iron	0.038U	0.10	0.038	mg/L
7439-92-1	Lead	0.0014U	0.015	0.0014	mg/L
7439-95-4	**Magnesium**	**0.56**	**0.10**	**0.014**	**mg/L**
7439-96-5	**Manganese**	**0.0057B**	**0.015**	**0.0012**	**mg/L**
7440-02-0	**Nickel**	**0.00097B**	**0.040**	**0.00096**	**mg/L**
7440-09-7	**Potassium**	**6.25**	**0.50**	**0.053**	**mg/L**
7782-49-2	Selenium	0.0043U	0.040	0.0043	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150502	**AOCU-EB03**	Water	07/13/2011 14:20	07/15/2011 09:15

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/15/2011 16:45	460814	SW-846 3005 Dissolved	1	07/19/2011 16:21	CLB	461307

CAS#	Parameter	Result	RDL	MDL	Units
7440-22-4	Silver	0.00060U	0.010	0.00060	mg/L
7440-23-5	**Sodium**	**55.6**	**1.00**	**0.051**	**mg/L**
7440-28-0	**Thallium**	**0.0027B**	**0.020**	**0.0018**	**mg/L**
7440-62-2	**Vanadium**	**0.0029B**	**0.020**	**0.00082**	**mg/L**
7440-66-6	Zinc	0.0027U	0.020	0.0027	mg/L

SW-846 6010B Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/15/2011 16:45	460814	SW-846 3005 Dissolved	1	07/20/2011 11:54	CLB	461437

CAS#	Parameter	Result	RDL	MDL	Units
7440-70-2	**Calcium**	**0.82**	**0.10**	**0.026**	**mg/L**

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/15/2011 11:23	AEL	460988

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**0.110**	**0.010**	**0.003**	**mg/L-N**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150503	**AOCU-SA01**	Solid	07/14/2011 08:45	07/15/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	50	07/20/2011 10:41	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**223**	**31.8**	**1.66**	**mg/kg-N**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150504	**AOCU-SA02**	Solid	07/14/2011 09:10	07/15/2011 09:15

Subcontract Work

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/16/2011 16:42	DMM	

CAS#	Parameter	Result	RDL	MDL	Units
SHIP-001	Ship Result	*			mg/L

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/19/2011 16:00	461396	EPA 353.2	100	07/20/2011 10:45	AEL	461398

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	**Nitrate**	**477**	**175**	**9.12**	**mg/kg-N**

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150505	**AOCU-SA03**	Water	07/14/2011 09:45	07/15/2011 09:15

EPA 353.2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/15/2011 11:24	AEL	460988

CAS#	Parameter	Result	RDL	MDL	Units
14797-55-8	Nitrate	0.003U	0.010	0.003	mg/L-N

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150506	**TRIP BLANK**	Water	07/13/2011 13:25	07/15/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 13:08	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	5	0.150	ug/L
71-55-6	1,1,1-Trichloroethane	0.078U	5	0.078	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	5	0.112	ug/L
79-00-5	1,1,2-Trichloroethane	0.179U	5	0.179	ug/L
75-34-3	1,1-Dichloroethane	0.064U	5	0.064	ug/L
75-35-4	1,1-Dichloroethene	0.183U	5	0.183	ug/L
563-58-6	1,1-Dichloropropene	0.071U	5	0.071	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.107U	5	0.107	ug/L
96-18-4	1,2,3-Trichloropropane	0.063U	5	0.063	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.138U	5	0.138	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.080U	5	0.080	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	5	0.082	ug/L
106-93-4	1,2-Dibromoethane	0.169U	5	0.169	ug/L
95-50-1	1,2-Dichlorobenzene	0.086U	5	0.086	ug/L
107-06-2	1,2-Dichloroethane	0.121U	5	0.121	ug/L
78-87-5	1,2-Dichloropropane	0.114U	5	0.114	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.053U	5	0.053	ug/L
541-73-1	1,3-Dichlorobenzene	0.080U	5	0.080	ug/L
142-28-9	1,3-Dichloropropane	0.113U	5	0.113	ug/L
106-46-7	1,4-Dichlorobenzene	0.058U	5	0.058	ug/L
544-10-5	1-Chlorohexane	0.139U	5	0.139	ug/L
594-20-7	2,2-Dichloropropane	0.112U	5	0.112	ug/L
78-93-3	2-Butanone	0.235U	5	0.235	ug/L
110-75-8	2-Chloroethylvinyl ether	1.00U	5	1.00	ug/L
95-49-8	2-Chlorotoluene	0.090U	5	0.090	ug/L
591-78-6	2-Hexanone	0.302U	5	0.302	ug/L
106-43-4	4-Chlorotoluene	0.046U	5	0.046	ug/L
99-87-6	4-Isopropyltoluene	0.175U	5	0.175	ug/L
108-10-1	4-Methyl-2-pentanone	0.142U	5	0.142	ug/L
67-64-1	Acetone	0.322U	25	0.322	ug/L
75-05-8	Acetonitrile	5.04U	25	5.04	ug/L
107-02-8	Acrolein	2.49U	25	2.49	ug/L
107-13-1	Acrylonitrile	1.62U	25	1.62	ug/L
107-05-1	Allyl chloride	0.343U	25	0.343	ug/L
71-43-2	Benzene	0.049U	5	0.049	ug/L
108-86-1	Bromobenzene	0.095U	5	0.095	ug/L
74-97-5	Bromochloromethane	0.238U	5	0.238	ug/L
75-27-4	Bromodichloromethane	0.071U	5	0.071	ug/L
75-25-2	Bromoform	0.278U	5	0.278	ug/L
74-83-9	Bromomethane	0.276U	5	0.276	ug/L
75-15-0	Carbon disulfide	0.190U	5	0.190	ug/L
56-23-5	Carbon tetrachloride	0.056U	5	0.056	ug/L
108-90-7	Chlorobenzene	0.055U	5	0.055	ug/L
75-00-3	Chloroethane	0.279U	5	0.279	ug/L
67-66-3	Chloroform	0.062U	5	0.062	ug/L
74-87-3	Chloromethane	0.076U	5	0.076	ug/L
124-48-1	Dibromochloromethane	0.133U	5	0.133	ug/L
74-95-3	Dibromomethane	0.197U	5	0.197	ug/L
75-71-8	Dichlorodifluoromethane	0.088U	5	0.088	ug/L
97-63-2	Ethyl methacrylate	0.340U	5	0.340	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107150506	**TRIP BLANK**	Water	07/13/2011 13:25	07/15/2011 09:15

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 13:08	SLR	461062

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	0.180U	5	0.180	ug/L
87-68-3	Hexachlorobutadiene	0.347U	5	0.347	ug/L
98-82-8	Isopropylbenzene (Cumene)	0.058U	5	0.058	ug/L
126-98-7	Methacrylonitrile	0.743U	5	0.743	ug/L
74-88-4	Methyl iodide	0.097U	5	0.097	ug/L
80-62-6	Methyl methacrylate	0.606U	10	0.606	ug/L
75-09-2	Methylene chloride	0.102U	10	0.102	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
76-01-7	Pentachloroethane	1.87U	5	1.87	ug/L
107-12-0	Propionitrile	3.06U	100	3.06	ug/L
100-42-5	Styrene	0.058U	5	0.058	ug/L
127-18-4	Tetrachloroethene	0.141U	5	0.141	ug/L
108-88-3	Toluene	0.078U	5	0.078	ug/L
79-01-6	Trichloroethene	0.094U	5	0.094	ug/L
75-69-4	Trichlorofluoromethane	0.094U	5	0.094	ug/L
76-13-1	Trichlorotrifluoroethane	0.141U	5	0.141	ug/L
108-05-4	Vinyl acetate	0.197U	5	0.197	ug/L
75-01-4	Vinyl chloride	0.104U	5	0.104	ug/L
156-59-2	cis-1,2-Dichloroethene	0.104U	5	0.104	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.105U	5	0.105	ug/L
136777-61-2	m,p-Xylene	0.099U	10	0.099	ug/L
104-51-8	n-Butylbenzene	0.068U	5	0.068	ug/L
110-54-3	n-Hexane	0.126U	5	0.126	ug/L
103-65-1	n-Propylbenzene	0.069U	5	0.069	ug/L
95-47-6	o-Xylene	0.077U	5	0.077	ug/L
135-98-8	sec-Butylbenzene	0.088U	5	0.088	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	5	0.084	ug/L
98-06-6	tert-Butylbenzene	0.058U	5	0.058	ug/L
156-60-5	trans-1,2-Dichloroethene	0.096U	5	0.096	ug/L
10061-02-6	trans-1,3-Dichloropropene	0.068U	5	0.068	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	5	0.429	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	84 - 120
1868-53-7	Dibromofluoromethane	50	54.9	ug/L	110	87 - 116
2037-26-5	Toluene d8	50	43.3	ug/L	87	86 - 112
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	76 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
67-64-1	Acetone	0.322U	0.322	50.0	52.5	105	59 - 134
107-02-8	Acrolein	2.49U	2.49	250	367	147	33 - 157
107-13-1	Acrylonitrile	1.62U	1.62	250	266	106	62 - 124
74-97-5	Bromochloromethane	0.238U	0.238	50.0	62.2	**124***	78 - 112
75-27-4	Bromodichloromethane	0.071U	0.071	50.0	58.0	116	76 - 116
75-25-2	Bromoform	0.278U	0.278	50.0	52.3	105	68 - 128
74-83-9	Bromomethane	0.276U	0.276	50.0	39.3	79	55 - 151
75-15-0	Carbon disulfide	0.190U	0.190	50.0	61.1	122	67 - 147
56-23-5	Carbon tetrachloride	0.056U	0.056	50.0	60.5	121	74 - 139
75-00-3	Chloroethane	0.279U	0.279	50.0	56.8	114	54 - 166
136777-61-2	m,p-Xylene	0.099U	0.099	100	98.2	98	83 - 121
67-66-3	Chloroform	0.062U	0.062	50.0	56.1	112	85 - 123
74-87-3	Chloromethane	0.076U	0.076	50.0	52.8	106	55 - 173
124-48-1	Dibromochloromethane	0.133U	0.133	50.0	52.5	105	74 - 116
74-95-3	Dibromomethane	0.197U	0.197	50.0	58.8	**118***	81 - 116
75-71-8	Dichlorodifluoromethane	0.088U	0.088	50.0	56.2	112	34 - 158
75-34-3	1,1-Dichloroethane	0.064U	0.064	50.0	59.0	118	82 - 127
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	55.4	111	76 - 122
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104	50.0	59.7	**119***	81 - 114
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096	50.0	57.3	115	82 - 126
75-09-2	Methylene chloride	0.102U	0.102	50.0	53.3	107	69 - 125
78-87-5	1,2-Dichloropropane	0.114U	0.114	50.0	58.4	117	81 - 120
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105	50.0	59.3	119	83 - 119
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068	50.0	50.6	101	87 - 123
100-41-4	Ethylbenzene	0.180U	0.180	50.0	50.6	101	87 - 118
97-63-2	Ethyl methacrylate	0.340U	0.340				
591-78-6	2-Hexanone	0.302U	0.302	50.0	53.4	107	58 - 125
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058	50.0	52.0	104	87 - 131
78-93-3	2-Butanone	0.235U	0.235	50.0	61.8	124	61 - 127
74-88-4	Methyl iodide	0.097U	0.097	50.0	43.8	88	72 - 125
108-10-1	4-Methyl-2-pentanone	0.142U	0.142	50.0	57.4	115	62 - 125
103-65-1	n-Propylbenzene	0.069U	0.069	50.0	51.6	103	86 - 125
100-42-5	Styrene	0.058U	0.058	50.0	51.0	102	78 - 118

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062	LCS461062
Prep Batch N/A	**GCAL ID**	969136	969137
	Sample Type	Method Blank	LCS
	Analytical Date	07/16/2011 09:00	07/16/2011 06:52
	Matrix	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
127-18-4	Tetrachloroethene	0.141U	0.141	50.0	54.4	109	80 - 131
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150	50.0	51.0	102	81 - 119
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112	50.0	51.3	103	71 - 120
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138	50.0	52.8	106	68 - 123
71-55-6	1,1,1-Trichloroethane	0.078U	0.078	50.0	59.0	118	79 - 133
79-00-5	1,1,2-Trichloroethane	0.179U	0.179	50.0	50.1	100	80 - 114
75-69-4	Trichlorofluoromethane	0.094U	0.094	50.0	57.3	115	66 - 156
96-18-4	1,2,3-Trichloropropane	0.063U	0.063	50.0	50.1	100	77 - 115
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080	50.0	49.4	99	82 - 120
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053	50.0	50.6	101	83 - 123
75-01-4	Vinyl chloride	0.104U	0.104	50.0	58.4	117	57 - 153
95-47-6	o-Xylene	0.077U	0.077	50.0	49.2	98	83 - 121
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082	50.0	50.4	101	61 - 118
106-93-4	1,2-Dibromoethane	0.169U	0.169	50.0	51.3	103	80 - 115
80-62-6	Methyl methacrylate	0.606U	0.606				
107-12-0	Propionitrile	3.06U	3.06				
108-05-4	Vinyl acetate	0.197U	0.197	50.0	49.3	99	38 - 159
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	57.1	114	75 - 116
99-87-6	4-Isopropyltoluene	0.175U	0.175	50.0	52.3	105	83 - 125
110-54-3	n-Hexane	0.126U	0.126	50.0	69.9	**140***	71 - 134
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429	50.0	49.9	100	51 - 137
594-20-7	2,2-Dichloropropane	0.112U	0.112	50.0	56.9	114	77 - 138
76-13-1	Trichlorotrifluoroethane	0.141U	0.141	50.0	61.0	122	74 - 139
563-58-6	1,1-Dichloropropene	0.071U	0.071	50.0	61.5	123	87 - 127
110-75-8	2-Chloroethylvinyl ether	1.00U	1.00	50.0	59.2	118	63 - 125
142-28-9	1,3-Dichloropropane	0.113U	0.113	50.0	49.5	99	81 - 113
108-86-1	Bromobenzene	0.095U	0.095	50.0	50.5	101	83 - 115
95-49-8	2-Chlorotoluene	0.090U	0.090	50.0	50.0	100	81 - 121
106-43-4	4-Chlorotoluene	0.046U	0.046	50.0	49.0	98	84 - 120
98-06-6	tert-Butylbenzene	0.058U	0.058	50.0	58.3	117	83 - 126
135-98-8	sec-Butylbenzene	0.088U	0.088	50.0	51.6	103	86 - 127
541-73-1	1,3-Dichlorobenzene	0.080U	0.080	50.0	51.6	103	86 - 115
106-46-7	1,4-Dichlorobenzene	0.058U	0.058	50.0	51.8	104	87 - 113

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062		**Client ID**	MB461062		LCS461062		
Prep Batch N/A		**GCAL ID**	969136		969137		
		Sample Type	Method Blank		LCS		
		Analytical Date	07/16/2011 09:00		07/16/2011 06:52		
		Matrix	Water		Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
104-51-8	n-Butylbenzene	0.068U	0.068	50.0	50.2	100	84 - 124
95-50-1	1,2-Dichlorobenzene	0.086U	0.086	50.0	53.2	106	85 - 115
87-68-3	Hexachlorobutadiene	0.347U	0.347	50.0	54.2	108	71 - 133
91-20-3	Naphthalene	0.175U	0.175	50.0	49.4	99	59 - 125
87-61-6	1,2,3-Trichlorobenzene	0.107U	0.107	50.0	52.5	105	64 - 126
75-05-8	Acetonitrile	5.04U	5.04				
107-05-1	Allyl chloride	0.343U	0.343				
544-10-5	1-Chlorohexane	0.139U	0.139	50.0	53.8	108	87 - 128
76-01-7	Pentachloroethane	1.87U	1.87				
126-98-7	Methacrylonitrile	0.743U	0.743				
75-35-4	1,1-Dichloroethene	0.183U	0.183	50.0	59.3	119	75 - 133
71-43-2	Benzene	0.049U	0.049	50.0	59.0	118	83 - 124
79-01-6	Trichloroethene	0.094U	0.094	50.0	61.0	122	85 - 124
108-88-3	Toluene	0.078U	0.078	50.0	50.9	102	86 - 116
108-90-7	Chlorobenzene	0.055U	0.055	50.0	49.9	100	87 - 115
Surrogate							
460-00-4	4-Bromofluorobenzene	51.5	103	50	52	104	84 - 120
1868-53-7	Dibromofluoromethane	52.7	105	50	51.9	104	87 - 116
2037-26-5	Toluene d8	46.1	92	50	47.6	95	86 - 112
17060-07-0	1,2-Dichloroethane-d4	49.1	98	50	48.6	97	76 - 127

Analytical Batch 461062		**Client ID**	MB461062		LCS461062			LCSD461062			
Prep Batch N/A		**GCAL ID**	969136		969248			969249			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	07/16/2011 09:00		07/16/2011 07:57			07/16/2011 18:06			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
67-64-1	Acetone	0.322U	0.322								
107-02-8	Acrolein	2.49U	2.49								
107-13-1	Acrylonitrile	1.62U	1.62								
74-97-5	Bromochloromethane	0.238U	0.238								

GC/MS Volatiles Quality Control Summary

Analytical Batch 461062	**Client ID**	MB461062			LCS461062			LCSD461062			
Prep Batch N/A	**GCAL ID**	969136			969248			969249			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
75-27-4	Bromodichloromethane	0.071U	0.071								
75-25-2	Bromoform	0.278U	0.278								
74-83-9	Bromomethane	0.276U	0.276								
75-15-0	Carbon disulfide	0.190U	0.190								
56-23-5	Carbon tetrachloride	0.056U	0.056								
75-00-3	Chloroethane	0.279U	0.279								
136777-61-2	m,p-Xylene	0.099U	0.099								
67-66-3	Chloroform	0.062U	0.062								
74-87-3	Chloromethane	0.076U	0.076								
124-48-1	Dibromochloromethane	0.133U	0.133								
74-95-3	Dibromomethane	0.197U	0.197								
75-71-8	Dichlorodifluoromethane	0.088U	0.088								
75-34-3	1,1-Dichloroethane	0.064U	0.064								
107-06-2	1,2-Dichloroethane	0.121U	0.121								
156-59-2	cis-1,2-Dichloroethene	0.104U	0.104								
156-60-5	trans-1,2-Dichloroethene	0.096U	0.096								
75-09-2	Methylene chloride	0.102U	0.102								
78-87-5	1,2-Dichloropropane	0.114U	0.114								
10061-01-5	cis-1,3-Dichloropropene	0.105U	0.105								
10061-02-6	trans-1,3-Dichloropropene	0.068U	0.068								
100-41-4	Ethylbenzene	0.180U	0.180								
97-63-2	Ethyl methacrylate	0.340U	0.340	50.0	49.5	99	68 - 110	59.8	**120***	19	30
591-78-6	2-Hexanone	0.302U	0.302								
98-82-8	Isopropylbenzene (Cumene)	0.058U	0.058								
78-93-3	2-Butanone	0.235U	0.235								
74-88-4	Methyl iodide	0.097U	0.097								
108-10-1	4-Methyl-2-pentanone	0.142U	0.142								
103-65-1	n-Propylbenzene	0.069U	0.069								
100-42-5	Styrene	0.058U	0.058								
127-18-4	Tetrachloroethene	0.141U	0.141								
630-20-6	1,1,1,2-Tetrachloroethane	0.150U	0.150								
79-34-5	1,1,2,2-Tetrachloroethane	0.112U	0.112								
120-82-1	1,2,4-Trichlorobenzene	0.138U	0.138								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461062	**Client ID**	MB461062		LCS461062				LCSD461062		
Prep Batch	N/A	**GCAL ID**	969136		969248				969249		
		Sample Type	Method Blank		LCS				LCSD		
		Analytical Date	07/16/2011 09:00		07/16/2011 07:57				07/16/2011 18:06		
		Matrix	Water		Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
71-55-6	1,1,1-Trichloroethane	0.078U	0.078								
79-00-5	1,1,2-Trichloroethane	0.179U	0.179								
75-69-4	Trichlorofluoromethane	0.094U	0.094								
96-18-4	1,2,3-Trichloropropane	0.063U	0.063								
95-63-6	1,2,4-Trimethylbenzene	0.080U	0.080								
108-67-8	1,3,5-Trimethylbenzene	0.053U	0.053								
75-01-4	Vinyl chloride	0.104U	0.104								
95-47-6	o-Xylene	0.077U	0.077								
96-12-8	1,2-Dibromo-3-chloropropane	0.082U	0.082								
106-93-4	1,2-Dibromoethane	0.169U	0.169								
80-62-6	Methyl methacrylate	0.606U	0.606	50.0	56.5	113	63 - 115	47.9	96	16	30
107-12-0	Propionitrile	3.06U	3.06	250	281	112	69 - 119	268	107	5	30
108-05-4	Vinyl acetate	0.197U	0.197								
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084								
99-87-6	4-Isopropyltoluene	0.175U	0.175								
110-54-3	n-Hexane	0.126U	0.126								
110-57-6	trans-1,4-Dichloro-2-butene	0.429U	0.429								
594-20-7	2,2-Dichloropropane	0.112U	0.112								
76-13-1	Trichlorotrifluoroethane	0.141U	0.141								
563-58-6	1,1-Dichloropropene	0.071U	0.071								
110-75-8	2-Chloroethylvinyl ether	1.00U	1.00								
142-28-9	1,3-Dichloropropane	0.113U	0.113								
108-86-1	Bromobenzene	0.095U	0.095								
95-49-8	2-Chlorotoluene	0.090U	0.090								
106-43-4	4-Chlorotoluene	0.046U	0.046								
98-06-6	tert-Butylbenzene	0.058U	0.058								
135-98-8	sec-Butylbenzene	0.088U	0.088								
541-73-1	1,3-Dichlorobenzene	0.080U	0.080								
106-46-7	1,4-Dichlorobenzene	0.058U	0.058								
104-51-8	n-Butylbenzene	0.068U	0.068								
95-50-1	1,2-Dichlorobenzene	0.086U	0.086								
87-68-3	Hexachlorobutadiene	0.347U	0.347								
91-20-3	Naphthalene	0.175U	0.175								

GC/MS Volatiles Quality Control Summary

Analytical Batch	461062	**Client ID**	MB461062			LCS461062			LCSD461062			
Prep Batch	N/A	**GCAL ID**	969136			969248			969249			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/16/2011 09:00			07/16/2011 07:57			07/16/2011 18:06			
		Matrix	Water			Water			Water			
SW-846 8260B		**Units**		ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result		**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-61-6	1,2,3-Trichlorobenzene	0.107U		0.107								
75-05-8	Acetonitrile	5.04U		5.04	250	291	116	57 - 123	174	70	**50***	30
107-05-1	Allyl chloride	0.343U		0.343	50.0	47.5	95	48 - 136	39.0	78	20	30
544-10-5	1-Chlorohexane	0.139U		0.139								
76-01-7	Pentachloroethane	1.87U		1.87	50.0	48.1	96	82 - 111	51.5	103	7	30
126-98-7	Methacrylonitrile	0.743U		0.743	50.0	51.0	102	62 - 133	49.1	98	4	30
75-35-4	1,1-Dichloroethene	0.183U		0.183								
71-43-2	Benzene	0.049U		0.049								
79-01-6	Trichloroethene	0.094U		0.094								
108-88-3	Toluene	0.078U		0.078								
108-90-7	Chlorobenzene	0.055U		0.055								
Surrogate												
460-00-4	4-Bromofluorobenzene	51.5		103	50	51.7	103	84 - 120	48.5	97		
1868-53-7	Dibromofluoromethane	52.7		105	50	50.6	101	87 - 116	46.7	93		
2037-26-5	Toluene d8	46.1		92	50	46.5	93	86 - 112	55	110		
17060-07-0	1,2-Dichloroethane-d4	49.1		98	50	51.1	102	76 - 127	51.3	103		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012			LCS461012			LCSD461012		
Prep Batch	461012	**GCAL ID**	968803			968804			968805		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/18/2011 08:45			07/18/2011 08:45			07/18/2011 08:45		
		Analytical Date	07/18/2011 11:06			07/18/2011 11:22			07/18/2011 11:38		
		Matrix	Water			Water			Water		
SW-846 8270C		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
208-96-8	Acenaphthylene		0.303U	0.303								
120-12-7	Anthracene		0.316U	0.316								
56-55-3	Benzo(a)anthracene		0.316U	0.316								
92-87-5	Benzidine		3.92U	3.92								
205-99-2	Benzo(b)fluoranthene		0.217U	0.217								
207-08-9	Benzo(k)fluoranthene		0.236U	0.236								
191-24-2	Benzo(g,h,i)perylene		0.215U	0.215								
50-32-8	Benzo(a)pyrene		0.125U	0.125								
65-85-0	Benzoic acid		0.910U	0.910								
85-68-7	Butyl benzyl phthalate		0.165U	0.165								
111-91-1	Bis(2-Chloroethoxy)methane		0.290U	0.290								
111-44-4	Bis(2-Chloroethyl)ether		0.288U	0.288								
108-60-1	Bis(2-Chloroisopropyl)ether		0.257U	0.257								
117-81-7	Bis(2-Ethylhexyl)phthalate		0.191U	0.191								
101-55-3	4-Bromophenyl phenyl ether		0.337U	0.337								
7005-72-3	4-Chlorophenyl phenyl ether		0.268U	0.268								
218-01-9	Chrysene		0.433U	0.433								
53-70-3	Dibenz(a,h)anthracene		0.217U	0.217								
132-64-9	Dibenzofuran		0.227U	0.227								
95-50-1	1,2-Dichlorobenzene		0.259U	0.259								
541-73-1	1,3-Dichlorobenzene		0.274U	0.274								
91-94-1	3,3'-Dichlorobenzidine		0.297U	0.297								
120-83-2	2,4-Dichlorophenol		0.217U	0.217								
84-66-2	Diethyl phthalate		0.303U	0.303								
105-67-9	2,4-Dimethylphenol		0.694U	0.694								
131-11-3	Dimethyl phthalate		0.255U	0.255								
117-84-0	Di-n-octyl phthalate		0.167U	0.167								
51-28-5	2,4-Dinitrophenol		2.60U	2.60								
606-20-2	2,6-Dinitrotoluene		0.352U	0.352								
206-44-0	Fluoranthene		0.267U	0.267								
86-73-7	Fluorene		0.288U	0.288								
118-74-1	Hexachlorobenzene		0.249U	0.249								

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012	LCS461012	LCSD461012
Prep Batch	461012	**GCAL ID**	968803	968804	968805
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/18/2011 08:45	07/18/2011 08:45	07/18/2011 08:45
		Analytical Date	07/18/2011 11:06	07/18/2011 11:22	07/18/2011 11:38
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-68-3	Hexachlorobutadiene	0.192U	0.192								
77-47-4	Hexachlorocyclopentadiene	0.174U	0.174								
67-72-1	Hexachloroethane	0.299U	0.299								
78-59-1	Isophorone	0.380U	0.380								
193-39-5	Indeno(1,2,3-cd)pyrene	0.157U	0.157								
91-57-6	2-Methylnaphthalene	0.255U	0.255								
95-48-7	o-Cresol	0.329U	0.329								
91-20-3	Naphthalene	0.293U	0.293								
98-95-3	Nitrobenzene	0.329U	0.329								
88-75-5	2-Nitrophenol	0.357U	0.357								
86-30-6	n-Nitrosodiphenylamine	0.364U	0.364								
85-01-8	Phenanthrene	0.304U	0.304								
95-95-4	2,4,5-Trichlorophenol	0.317U	0.317								
88-06-2	2,4,6-Trichlorophenol	0.275U	0.275								
100-51-6	Benzyl alcohol	0.355U	0.355								
99-09-2	3-Nitroaniline	0.226U	0.226								
100-01-6	4-Nitroaniline	0.221U	0.221								
84-74-2	Di-n-butyl phthalate	0.189U	0.189								
88-74-4	2-Nitroaniline	0.198U	0.198								
91-58-7	2-Chloronaphthalene	0.221U	0.221								
106-47-8	4-Chloroaniline	0.463U	0.463								
1319-77-3MP	m,p-Cresol	0.352U	0.352								
534-52-1	4,6-Dinitro-2-methylphenol	1.98U	1.98								
108-95-2	Phenol	0.150U	0.150	100	24.1	24	13 - 54	26.6	27	10	30
95-57-8	2-Chlorophenol	0.276U	0.276	100	60.8	61	44 - 103	59.5	60	2	30
106-46-7	1,4-Dichlorobenzene	0.255U	0.255	100	79.8	80	40 - 100	75.9	76	5	30
621-64-7	n-Nitrosodi-n-propylamine	0.304U	0.304	100	83.4	83	51 - 104	75.7	76	10	30
120-82-1	1,2,4-Trichlorobenzene	0.234U	0.234	100	80.9	81	45 - 104	74.8	75	8	30
59-50-7	4-Chloro-3-methylphenol	0.234U	0.234	100	65.6	66	53 - 105	58.6	59	11	30
83-32-9	Acenaphthene	0.268U	0.268	100	81.4	81	58 - 106	76.6	77	6	30
100-02-7	4-Nitrophenol	1.83U	1.83	100	24.6	25	13 - 55	26.0	26	6	30
121-14-2	2,4-Dinitrotoluene	0.263U	0.263	100	88.5	89	60 - 109	82.7	83	7	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch	461195	**Client ID**	MB461012	LCS461012	LCSD461012
Prep Batch	461012	**GCAL ID**	968803	968804	968805
Prep Method	3510C	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/18/2011 08:45	07/18/2011 08:45	07/18/2011 08:45
		Analytical Date	07/18/2011 11:06	07/18/2011 11:22	07/18/2011 11:38
		Matrix	Water	Water	Water

SW-846 8270C		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
87-86-5	Pentachlorophenol	0.168U	0.168	100	66.6	67	57 - 118	61.9	62	7	30
129-00-0	Pyrene	0.486U	0.486	100	96.1	96	60 - 113	87.3	87	10	30
Surrogate											
4165-60-0	Nitrobenzene-d5	45.8	92	50	47	94	52 - 120	39.3	79		
321-60-8	2-Fluorobiphenyl	47.2	94	50	46.8	94	16 - 128	40.7	81		
1718-51-0	Terphenyl-d14	52.8	106	50	55	110	43 - 138	48	96		
4165-62-2	Phenol-d5	33	33	100	34.2	34	10 - 120	34.9	35		
367-12-4	2-Fluorophenol	52.2	52	100	53.6	54	10 - 120	51.4	51		
118-79-6	2,4,6-Tribromophenol	97.1	97	100	100	100	20 - 120	87.1	87		

General Chromatography Quality Control Summary

Analytical Batch	461355	**Client ID**	MB461145			LCS461145			LCSD461145			
Prep Batch	461145	**GCAL ID**	969362			969363			969364			
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	07/18/2011 10:45			07/18/2011 10:45			07/18/2011 10:45			
		Analytical Date	07/18/2011 17:16			07/18/2011 17:34			07/18/2011 17:52			
		Matrix	Water			Water			Water			
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-4	Diesel Range Organics		44.2U	44.2	1000	865	86	50 - 150	867	87	0.2	40
Surrogate												
84-15-1	o-Terphenyl		45.8	92	50	50.8	102	57 - 115	47.9	96		

General Chromatography Quality Control Summary

Analytical Batch 461421	**Client ID**	MB461421			LCS461421		
Prep Batch N/A	**GCAL ID**	970478			970479		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/20/2011 16:11			07/20/2011 12:15		
	Matrix	Water			Water		
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
8006-61-9	Gasoline Range Organics	13.0U	13.0	500	539	108	63 - 126
Surrogate							
106-39-8	Bromochlorobenzene	30.9	103	30	34.3	114	49 - 136

Analytical Batch 461421	**Client ID**	S-4 INFLUENT			967516MS			967516MSD			
Prep Batch N/A	**GCAL ID**	21107130201			970480			970481			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/20/2011 16:31			07/20/2011 16:51			07/20/2011 17:13			
	Matrix	Water			Water			Water			
SW-846 8015B Modified		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
8006-61-9	Gasoline Range Organics	45200	1300	50000	93800	97	67 - 171	87900	85	6	31
Surrogate											
106-39-8	Bromochlorobenzene			3000	3340	111	49 - 136	4040	135		

General Chromatography Quality Control Summary

Analytical Batch	461357	**Client ID**	MB461146			LCS461146			LCSD461146		
Prep Batch	461146	**GCAL ID**	969365			969366			969367		
Prep Method	3510C	**Sample Type**	Method Blank			LCS			LCSD		
		Prep Date	07/18/2011 10:45			07/18/2011 10:45			07/18/2011 10:45		
		Analytical Date	07/18/2011 17:16			07/18/2011 18:09			07/18/2011 18:27		
		Matrix	Water			Water			Water		
SW-846 8015B		**Units**	**Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
GCSV-00-44	Oil Range Organics		45.7U	45.7	2000	1820	91	50 - 150	1620	81	11	40
Surrogate												
84-15-1	o-Terphenyl		46.2	92	50	46.9	94	57 - 115	43.1	86		

Inorganics Quality Control Summary

Analytical Batch	460971	**Client ID**	MB460813	LCS460813	LCSD460813
Prep Batch	460813	**GCAL ID**	967848	967849	969485
Prep Method	SW-846	**Sample Type**	Method Blank	LCS	LCSD
	7470A	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/17/2011 16:11	07/17/2011 16:12	07/18/2011 12:43
		Matrix	Water	Water	Water

SW-846 7470A Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7439-97-6	Mercury	0.000081U	0.000081	0.00500	0.00490	98	88 - 111	0.00520	104	6	20

Inorganics Quality Control Summary

Analytical Batch	461307	**Client ID**	MB460814	LCS460814	LCSD460814
Prep Batch	460814	**GCAL ID**	967853	967854	968998
Prep Method	SW-846 3005	**Sample Type**	Method Blank	LCS	LCSD
	Dissolved	**Prep Date**	07/14/2011 13:30	07/14/2011 13:30	07/14/2011 13:30
		Analytical Date	07/19/2011 15:47	07/19/2011 15:54	07/19/2011 16:00
		Matrix	Water	Water	Water

SW-846 6010B Dissolved		**Units**	mg/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
7429-90-5	Aluminum	0.044U	0.044	5.00	4.71	94	87 - 111	4.72	94	0.2	20
7440-36-0	Antimony	0.0040U	0.0040	0.50	0.50	101	88 - 108	0.49	98	3	20
7440-38-2	Arsenic	0.0029B	0.0025	0.50	0.52	104	88 - 109	0.52	104	0.3	20
7440-39-3	Barium	0.014	0.00011	0.50	0.51	102	92 - 112	0.51	102	0.2	20
7440-41-7	Beryllium	0.00011U	0.00011	0.50	0.49	99	89 - 113	0.49	99	0.02	20
7440-43-9	Cadmium	0.00011U	0.00011	0.50	0.52	104	88 - 111	0.52	104	0.01	20
7440-70-2	Calcium	0.026U	0.026	5.00	4.93	99	90 - 111	4.99	100	1	20
7440-47-3	Chromium	0.00034U	0.00034	0.50	0.50	100	90 - 113	0.50	100	0.1	20
7440-48-4	Cobalt	0.00040U	0.00040	0.50	0.52	104	89 - 111	0.52	104	0.3	20
7440-50-8	Copper	0.0014U	0.0014	0.50	0.49	97	86 - 112	0.48	97	0.2	20
7439-89-6	Iron	0.038U	0.038	5.00	4.89	98	89 - 116	4.92	98	0.7	20
7439-92-1	Lead	0.0014U	0.0014	0.50	0.52	105	89 - 109	0.52	105	0.07	20
7439-95-4	Magnesium	0.018B	0.014	5.00	5.10	102	92 - 113	5.17	103	1	20
7439-96-5	Manganese	0.0051B	0.0012	0.50	0.50	101	90 - 110	0.50	101	0.2	20
7440-02-0	Nickel	0.00096U	0.00096	0.50	0.53	105	89 - 111	0.52	105	0.4	20
7440-09-7	Potassium	0.053U	0.053	10.0	9.66	97	89 - 114	9.66	97	0.02	20
7782-49-2	Selenium	0.0043U	0.0043	0.50	0.53	105	90 - 110	0.52	104	0.5	20
7440-22-4	Silver	0.00060U	0.00060	0.50	0.49	98	86 - 120	0.49	97	0.3	20
7440-23-5	Sodium	0.086B	0.051	20.0	19.3	96	90 - 117	19.5	97	1	20
7440-28-0	Thallium	0.0020B	0.0018	0.50	0.53	107	88 - 108	0.53	107	0.3	20
7440-62-2	Vanadium	0.0014B	0.00082	0.50	0.50	99	91 - 111	0.49	99	0.2	20
7440-66-6	Zinc	0.0027U	0.0027	0.50	0.50	101	84 - 111	0.51	101	0.3	20

General Chemistry Quality Control Summary

Analytical Batch 460988	**Client ID**	MB460988			LCS460988		
Prep Batch N/A	**GCAL ID**	968672			968673		
	Sample Type	Method Blank			LCS		
	Analytical Date	07/15/2011 11:15			07/15/2011 11:17		
	Matrix	Water			Water		
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.003U	0.003	0.500	0.464	93	89.5 -110.5

Analytical Batch 460988	**Client ID**	AOCU-GW91-R			968643MS			968643MSD			
Prep Batch N/A	**GCAL ID**	21107150501			968674			968675			
	Sample Type	SAMPLE			MS			MSD			
	Analytical Date	07/15/2011 11:26			07/15/2011 11:27			07/15/2011 11:30			
	Matrix	Water			Water			Water			
EPA 353.2 Nitrate		**Units**	mg/L-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8 Nitrate		7.92	0.052	10.0	18.0	101	89.5 -110.5	17.9	99	0.9	25

Analytical Batch 461398	**Client ID**	MB461396			LCS461396		
Prep Batch 461396	**GCAL ID**	970352			970353		
Prep Method EPA 353.2	**Sample Type**	Method Blank			LCS		
	Prep Date	07/19/2011 16:00			07/19/2011 16:00		
	Analytical Date	07/20/2011 10:15			07/20/2011 10:16		
	Matrix	Solid			Solid		
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
14797-55-8 Nitrate		0.026U	0.026	5.00	5.08	102	90 - 110

General Chemistry Quality Control Summary

Analytical Batch	461398	**Client ID**	AOCU-HA66-2		AOCU-HA66--2-MS			AOCU-HA66--2-MSD			
Prep Batch	461396	**GCAL ID**	21107141203		21107141204			21107141205			
Prep Method	EPA 353.2	**Sample Type**	SAMPLE		MS			MSD			
		Prep Date	07/19/2011 16:00		07/19/2011 16:00			07/19/2011 16:00			
		Analytical Date	07/20/2011 10:36		07/20/2011 10:38			07/20/2011 10:39			
		Matrix	Solid		Solid			Solid			
EPA 353.2 Nitrate		**Units**	mg/kg-N	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
14797-55-8	Nitrate	9.23	0.130	25.0	36.6	109	90 - 110	36.3	108	0.7	25

DHL ANALYTICAL

August 05, 2011

Dana Merrill
GCAL LAB
7979 GSRI AVENUE
BATON ROUGE, LA 70820

TEL: (225) 769-4900
FAX: (225) 767-5717

Order No: 1107170

RE: DoD Perchlorate

Dear Dana Merrill:

DHL Analytical received 4 sample(s) on 7/21/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory Certification Number: T104704211-11-7 & DoD ELAP #ADE-1416 v2

ACCREDITED IN ACCORDANCE WITH nelac

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI AVE, BATON ROUGE LA 70820-7402
(225) 769-4900 FAX (225) 767-5717

#1107170

Chain of Custody Record

Submitted by		Bill to	
Client:	Gulf Coast Analytical Labs	Client:	Gulf Coast Analytical Labs
Address:	7979 GSRI Avenue	Address:	7979 GSRI Avenue
	Baton Rouge, LA 70820		Baton Rouge, LA 70820
Contact:	Dana Merrill	Contact:	Dana Merrill
Phone:	(225)769-4900	Phone:	(225)769-4900
Fax:	(225)767-5717	Fax:	(225)767-5717

P.O. Number: 11-0688

Project Name/Number: 4771

Sampled By:

Analysis Requested: PERCHLORATE (6860)

* Our P. O. Number must appear on the Invoice.
* Our Project Number must appear on the final report.

	Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No. Containers	PERCHLORATE (6860)	Remarks:	Lab ID
01	W	7/13/2011	13:25		X	21107150501		1	X	AOCU-GW91-R	
02	W	7/13/2011	14:20		X	21107150502		1	X	AOCU-EB03	
03	S	7/14/2011	8:45		X	21107150503		1	X	AOCU-SA01	
04	S	7/14/2011	9:10		X	21107150504		1	X	AOCU-SA02	

Turn Around Time: ___ 24 - 48 hrs ___ 3 days 1 week X standard other _____

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	7/20/11	1700
[signature]	[signature]	7/21/11	1010

Note: Receiving temp 2.5 Therm #57

Please fax results to (225)767-5717

PLEASE RETURN ICE CHESTS TO 7979 GSRI AVE.

no custody seals

Matrix: W = water, S=Soil, SD=Solid, L=Liquid, SL=Sludge, O=Oil, CT=Charcoal Tube, OVM=Organic Vapor Monitor, XT=XAD Tube, A=Air Bag, SUM=Summa Canister

ORIGIN ID: OPLA (225) 768-4900
SAMPLE RECEIVING
GCAL
7979 GSRI AV.

BATON ROUGE, LA 70820
UNITED STATES US

SHIP DATE: 20JUL11
ACTWGT: 65.0 LB MAN
CAD: 664080/CAFE2473

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 308-8222
REF:
PO:
DEPT:

RT 512 1 C
6322
07.21

FedEx Express

TRK# (020) 4932 5568 6322

THU - 21 JUL A1
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US
AUS

Part # 156148-434 JUN 09

DHL Analytical

Sample Receipt Checklist

Client Name GCAL LAB | Date Received: 7/21/2011

Work Order Number 1107170 | Received by JB

Checklist completed by: [signature] 7/21/11 (Signature / Date) Reviewed by SS 7-21-11 (Initials / Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

John DuPont
Signature

08/05/11
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: DoD Perchlorate	Date: 8/5/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1107170
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: DoD Perchlorate	Date: 8/5/11
Reviewer Name: Carlos Castro	Laboratory Work Order: 1107170

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				S5-02
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods (NELAC Chap 5)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

p

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS_110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
ICS-110727		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst 8/3/11 Date

2nd Level Review 8/3/11 Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Manual Integrations Tracking Form - DoD QSM 4.2 Requirement

Instrument ID: ICMS

ICAL Folder: ICMS 110726.CAL

Sample ID ICAL, ICV, and CCV QC and Field Samples	Analyte #1 Identification & Reason	Analyte #2 Identification & Reason	Analyte #3 Identification & Reason	Analyte #4 Identification & Reason
	Perchlorate - 101	Perchlorate - 99	Internal Standard	
1107168-03A		Ratio failing, MI peak due to tailing.		

*Manually Integrated = MI

Analyst

8/3/11
Date

2nd Level Review

8/3/11
Date

Manual Integrations Tracking Form(DATA) - Perchlorate-DoD-R2

Initial Calibration Summary

Control Program:	**ClO4PGM_110726**
Quantif. Method:	**ClO4_110726**
Recording Time:	**7/27/2011 16:42**
Injection Volume:	**200.0**
Test:	**Perchlorate**

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Average 2146

SI 8/4/11

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

SI 8/3/11

8/3/11

Internal Standard Summary

Sequence Name:	110726_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.656
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110727	2198.723
LCVL1-110727	2275.425
ICS1-110727	2389.928
LRB3-110727	2492.483
LCS-47407	1899.214
MB-47407	2002.376
1107169-10A	1858.658
1107170-02A	1779.491
1107171-01A	1894.365
1107116-34A	1781.393
1107116-34A	1595.240
1107170-01A	1923.795
1107170-01AMS	1952.528
1107170-01AMSD	2037.454
CCV1-110727	1985.330
LRB4-110727	1671.368
LCVL2-110727	2387.183

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8/13/11

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	7/28/2011 9:21
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1968.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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Internal Standard Summary

Sequence Name:	110728_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B
LRB1-110727	2898.720
ClO4_0.3_1	2145.881
ClO4_0.5_1	2548.699
ClO4_1.0_1	2323.890
ClO4_2.0_1	2120.738
ClO4_5.0_1	1968.739
ClO4_7.0_1	2018.666
CLO4_10.0_1	1682.393
LRB2-110727	2036.081
SSCV-110727	2049.728
ICV1-110728	1987.605
LCVL1-110728	1623.803
ICS-110728	1674.810
LRB1-110728	2042.303
LCS-47445	1737.788
MB-47445	1798.954
1107115-23A	1531.744
1107115-23A	1264.770
1107168-01A	1660.174
1107168-02A	1687.163
1107168-03A	1761.626
1107168-04A	1672.380
1107168-05A	1647.878
1107168-06A	1637.325
1107168-07A	1698.739
1107168-04AMS	1484.539

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1107168-04AMSD	1629.799
CCV1-110728	1465.324
LCVL2-110728	1598.693
LRB2-110728	1703.970
LCS-47446	1745.134
MB-47446	1862.168
1107169-01A	1856.633
1107169-02A	1918.114
1107169-03A	1785.668
1107169-04A	1896.413
1107169-05A	2920.568
1107169-06A	2903.445
1107169-07A	2832.597
1107169-08A	2707.413
1107169-09A	2276.764
1107170-03A	2192.373
CCV2-110728	1754.324
LCVL3-110728	2175.384
LRB3-110728	1459.588
1107170-04A	689.510
1107171-02A	1849.075
1107171-03A	2110.881
1107171-04A	1469.902
1107171-05A	1753.168
1107171-06A	1661.917
1107171-07A	1237.265
1107171-08A	1210.517
1107171-09A	1322.133
1107171-03AMS	1108.983
1107171-03AMSD	1172.345
CCV3-110728	1102.353
LCVL4-110728	1274.465
LRB4-110728	1408.374

Initial Calibration Summary

Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Recording Time:	8/1/2011 10:41
Injection Volume:	200.0
Test:	Perchlorate

Sample Name	Area counts*min Perchlorate_99 SIM_01B	Area counts*min Perchlorate_101 SIM_02B	Area counts*min ISTD_03 SIM_03B
ClO4_0.3_1	733.3088	210.893	2145.881
ClO4_0.5_1	1475.4150	481.320	2548.699
ClO4_1.0_1	2661.4575	854.955	2323.890
ClO4_2.0_1	4767.6150	1538.438	2120.738
ClO4_5.0_1	11776.2750	3823.009	1988.739
ClO4_7.0_1	16497.7875	5325.975	2018.666
CLO4_10.0_1	20492.6400	6446.093	1682.393

Peak	Cal Type	Offset	Slope	Curve	Coeff. Det.
Perchlorate_99	XQOff	0.707	112.352	0.899	99.973
Perchlorate_101	XQOff	-1.155	37.952	0.045	99.962

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8-3-2011

Internal Standard Summary

Sequence Name:	110801_CLO4
Control Program:	ClO4PGM_110726
Quantif. Method:	ClO4_110726
Injection Volume:	200.0
Test:	Perchlorate

	Area Counts
ISTD 107 Cal Average	2116
Low Limit (50%)	1058
High Limit (150%)	3174

Sample Name	Area counts*min ISTD_03 SIM_03B	
LRB1-110727	2898.720	
ClO4_0.3_1	2145.881	
ClO4_0.5_1	2548.699	
ClO4_1.0_1	2323.890	
ClO4_2.0_1	2120.738	
ClO4_5.0_1	1968.739	
ClO4_7.0_1	2018.666	
CLO4_10.0_1	1682.393	
LRB2-110727	2036.081	
SSCV-110727	2049.728	
ICV1-110801	1798.323	
ICS1-110801	1773.133	
LRB1-110801	1410.887	
LCVL1-110801	1772.208	
LCS-47447	2273.157	
MB-47447	2191.263	
1107173-01B	1466.218	
1107173-02B	1092.070	
1107173-03B	1828.047	
1107173-04B	911.988	DNR
1107173-05B	1240.178	
1107173-06B	1182.566	
1107173-07B	1048.364	
1107173-08B	1573.440	
1107173-09B	631.498	DNR
1107173-10B	1419.320	

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CCV1-110801	1160.073
LCVL2-110801	1298.608
LRB2-110801	1169.724
1107173-11B	478.441
1107173-12B	1880.248
1107173-13B	680.769
1107173-14B	1396.781
1107173-15B	1078.982
1107173-16B	1824.038
1107173-17B	1286.953
1107173-18B	1150.469
1107173-18BMS	1343.593
1107173-18BMSD	1394.345
CCV2-110801	1925.542
LCVL3-110801	2193.946
LRB3-110801	2123.831
1107170-04A	1771.945
1107171-06A	2365.564
1107173-03B	2261.733
1107173-04B	2246.378
1107173-07B	2340.358
1107173-09B	1990.662
1107173-10B	1736.996
1107171-03AMS	2175.970
1107171-03AMSD	2280.618
CCV3-110801	1927.376
LCVL4-110801	1967.275
LRB4-110801	1812.568
1107170-04A	1677.303
1107173-11B	1873.588
1107173-13B	2064.816
1107173-14B	1779.561
1107173-15B	1577.310
1107173-16B	1637.512
1107173-17B	1456.890
1107173-18B	1934.067
1107173-18BMS	1978.729
1107173-18BMSD	1761.755
CCV4-110801	1567.520
LCVL5-110801	1844.080
LRB5-110801	1656.783

DNR

DNR

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CLIENT:	GCAL LAB	
Project:	DoD Perchlorate	**CASE NARRATIVE**
Lab Order:	1107170	

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC. The "U" flag , in the Analytical Report, indicates the results for that sample are nondetect.

Samples were analyzed using the methods outlined in the following references:

Method E332.0 or SW6860 - Perchlorate Analysis (Parameter is ELAP Accredited but not NELAC Certified)
Method D2216 - Percent Moisture

Exception Report R1-01

The samples were received on and log-in performed on 7/21/2011. A total of 4 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

Exception Report S5-02

For Perchlorate Analysis, some samples and/or standards were manually integrated. Please refer to the table on page 9 of this report for the full list of samples, standards, and the compounds that were manually integrated.

A summary of project communication follows:

Request for quote was sent to DHL Analytical from the client, via email on 5/5/11 and the quote was sent to client via email on 5/5/11. Email for work approved by both parties on 5/18/11 with P.O number 11-0446.

Client sent samples in own containers.

Communication via email between Dana Merrill of GCAL and John DuPont of DHL on 6/28/2011 and 7/20/2011, regarding project specifications have been files in this workorder folder.

This sample delivery group arrived at DHL Analytical 7/21/11.

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107170

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1107170-01	21107150501		07/13/11 01:25 PM	07/21/11
1107170-02	21107150502		07/13/11 02:20 PM	07/21/11
1107170-03	21107150503		07/14/11 08:45 AM	07/21/11
1107170-04	21107150504		07/14/11 09:10 AM	07/21/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107170

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1107170-01A	21107150501	07/13/11 01:25 PM	Aqueous	SW6860	Perchlorate Prep	07/27/11 01:35 PM	47407
1107170-02A	21107150502	07/13/11 02:20 PM	Aqueous	SW6860	Perchlorate Prep	07/27/11 01:35 PM	47407
1107170-03A	21107150503	07/14/11 08:45 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107150503	07/14/11 08:45 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412
1107170-04A	21107150504	07/14/11 09:10 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107150504	07/14/11 09:10 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107150504	07/14/11 09:10 AM	Soil	SW6860	Perchlorate Soil Prep	07/28/11 01:51 AM	47446
	21107150504	07/14/11 09:10 AM	Soil	D2216	Moisture Preparation	07/26/11 05:00 PM	47412

CLIENT: GCAL LAB
Project: DoD Perchlorate
Lab Order: 1107170

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1107170-01A	21107150501	Aqueous	SW6860	Perchlorate - Water	47407	1	07/27/11 08:36 PM	ICMS_110727A
1107170-02A	21107150502	Aqueous	SW6860	Perchlorate - Water	47407	1	07/27/11 07:08 PM	ICMS_110727A
1107170-03A	21107150503	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107150503	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 10:02 AM	ICMS_110728A
1107170-04A	21107150504	Soil	D2216	Percent Moisture	47412	1	07/27/11 08:40 AM	PMOIST_110726C
	21107150504	Soil	SW6860	Perchlorate - Soil	47446	1	07/29/11 11:27 AM	ICMS_110728A
	21107150504	Soil	SW6860	Perchlorate - Soil	47446	100	08/01/11 11:57 PM	ICMS_110801A
	21107150504	Soil	SW6860	Perchlorate - Soil	47446	500	08/02/11 10:23 AM	ICMS_110801A

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107170

Client Sample ID: 21107150501
Lab ID: 1107170-01
Collection Date: 07/13/11 01:25 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.0529	0.00495	0.0148	N	mg/L	1	07/27/11 08:36 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107170

Client Sample ID: 21107150502
Lab ID: 1107170-02
Collection Date: 07/13/11 02:20 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Water		**SW6860**					**Analyst: CZ**
Perchlorate	0.000100	0.000100	0.000300	NU	mg/L	1	07/27/11 07:08 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 08/05/11

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107170

Client Sample ID: 21107150503
Lab ID: 1107170-03
Collection Date: 07/14/11 08:45 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	0.0656	0.00135	0.00674	N	mg/Kg-dry	1	07/29/11 10:02 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	27.4	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Project: DoD Perchlorate
Project No: 4771
Lab Order: 1107170

Client Sample ID: 21107150504
Lab ID: 1107170-04
Collection Date: 07/14/11 09:10 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Perchlorate - Soil		**SW6860**					**Analyst: CZ**
Perchlorate	42.3	0.953	4.77	N	mg/Kg-dry	500	08/02/11 10:23 AM
Percent Moisture		**D2216**					**Analyst: JCG**
Percent Moisture	47.9	0	0		WT%	1	07/27/11 08:40 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	LCS-47407	Batch ID:	47407		TestNo:		SW6860			Units:	mg/L
SampType:	LCS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:15 PM			Prep Date:	07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000323	0.000300	0.000300	0	108	85	115			N

Sample ID:	MB-47407	Batch ID:	47407		TestNo:		SW6860			Units:	mg/L
SampType:	MBLK	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 06:32 PM			Prep Date:	07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000100	0.000300								NU

Sample ID:	1107170-01AMS	Batch ID:	47407		TestNo:		SW6860			Units:	mg/L
SampType:	MS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 08:54 PM			Prep Date:	07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0698	0.0148	0.0148	0.0529	114	85	115			N

Sample ID:	1107170-01AMSD	Batch ID:	47407		TestNo:		SW6860			Units:	mg/L
SampType:	MSD	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:12 PM			Prep Date:	07/27/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.0659	0.0148	0.0148	0.0529	87.7	85	115	5.78	20	N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110727A

Sample ID:	ICV1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	ICV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 04:42 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00206	0.000300	0.00200	0	103	85	115			N

Sample ID:	LCVL1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:00 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000240	0.000300	0.000200	0	120	70	130			N

Sample ID:	ICS1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	ICS	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 05:18 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000257	0.000300	0.000300	0	85.7	85	115			N

Sample ID:	CCV1-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	CCV	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 09:29 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.000300	0.00500	0	98.4	85	115			N

Sample ID:	LCVL2-110727	Batch ID:	R56134		TestNo:		SW6860			Units:	mg/L
SampType:	LCVL	Run ID:	ICMS_110727A		Analysis Date:		07/27/11 10:05 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000207	0.000300	0.000200	0	104	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	LCS-47446	Batch ID:	47446		TestNo:		SW6860			Units:	mg/Kg
SampType:	LCS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 04:57 PM			Prep Date:	07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00505	0.00500	0.00450	0	112	85	115			N

Sample ID:	MB-47446	Batch ID:	47446		TestNo:		SW6860			Units:	mg/Kg
SampType:	MBLK	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 05:15 PM			Prep Date:	07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00100	0.00500								NU

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110728A

Sample ID:	ICV1-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	ICV	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 09:21 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00195	0.00500	0.00200	0	97.3	85	115			N

Sample ID:	LCVL1-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 09:38 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000208	0.00500	0.000200	0	104	70	130			N

Sample ID:	ICS-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	ICS	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 10:57 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000339	0.00500	0.000300	0	113	70	130			N

Sample ID:	LCVL2-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/28/11 04:04 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000252	0.00500	0.000200	0	126	70	130			N

Sample ID:	CCV2-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 10:19 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00486	0.00500	0.00500	0	97.2	80	120			N

Sample ID:	LCVL3-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 10:53 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000217	0.00500	0.000200	0	109	70	130			N

Sample ID:	CCV3-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	CCV	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 02:34 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00520	0.00500	0.00500	0	104	80	120			N

Sample ID:	LCVL4-110728	Batch ID:	R56137		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110728A		Analysis Date:		07/29/11 03:08 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000202	0.00500	0.000200	0	101	70	130			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110801A

Sample ID:	1107171-03AMS	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MS	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:24 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00743	0.00725	0.00653	0	114	75	125			N

Sample ID:	1107171-03AMSD	Batch ID:	47446		TestNo:		SW6860		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:41 AM		Prep Date:		07/28/11
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00742	0.00712	0.00641	0	116	75	125	0.183	20	N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: ICMS_110801A

Sample ID:	ICV1-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	ICV	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:41 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00186	0.00500	0.00200	0	93.0	85	115			N

Sample ID:	ICS1-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	ICS	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:58 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000337	0.00500	0.000300	0	112	70	130			N

Sample ID:	LCVL1-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 11:32 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000236	0.00500	0.000200	0	118	70	130			N

Sample ID:	LCVL3-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/01/11 10:49 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000198	0.00500	0.000200	0	99.2	70	130			N

Sample ID:	CCV3-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	CCV	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 08:58 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00499	0.00500	0.00500	0	99.8	80	120			N

Sample ID:	LCVL4-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	LCVL	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 09:32 AM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.000238	0.00500	0.000200	0	119	70	130			N

Sample ID:	CCV4-110801	Batch ID:	R56138		TestNo:		SW6860		Units:		mg/Kg
SampType:	CCV	Run ID:	ICMS_110801A		Analysis Date:		08/02/11 01:13 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Perchlorate		0.00492	0.00500	0.00500	0	98.4	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: GCAL LAB
Work Order: 1107170
Project: DoD Perchlorate

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_110726C

Sample ID:	1107168-04ADUP	Batch ID:	47412	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_110726C	Analysis Date:	07/27/11 08:40 AM	Prep Date:	07/26/11

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	28.5	0	0	29.21				2.47	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

NATIONVIEW

Nationview / 4771 / 211071505 / 7/22/11

Project No: 8090006.02.010

COC Number(1): 071411-01

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.: Holloman AFB, New Mexico

Project/Site Name: AOC-U, RFI Investigation

Client Name: USACE - Albuquerque District

Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOCs (8260B)	SVOCs (8270C)	TPH-GRO (8015B)	TPH-DRO/ORO (8015B)	TAL Metals (6010B/7471A)	Perchlorate (6860)	Nitrate (353.2)							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID	
								Sample Analysis Requested (5)														Quality Assurance Samples (6)				
AOCU-GW91-R	AOCU-GW91	13072011	1325	-	N	2	WG	2						X	X										1	1
AOCU-EB03		13072011	1420	-	EB	1	WQ	11	X	X	X	X	X	X	X										1	2
AOCU-SA01	AOCU-SA01	14072011	0845	-	N	1	SS	1						X	X										1	3
AOCU-SA02	AOCU-SA02	14072011	0910	-	N	1	SS	1						X	X										1	4
AOCU-SA03	AOCU-SA03	14072011	0945	-	N	1	WG	1							X										1	5
Trip Blank		13072011	1325	-	TB	1	WQ	3	X																1	6
				-																						
				-																						
				-																						
				-																						
				-																						

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	J H Moore	7/14/11	1500	Fed Ex		
2.	Fed Ex	7/15/11	915	[illegible]	7/15/11	915
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:

Shipped No.:

Method of Shipment: Federal Express

Airbill Number: 7949 7144 7606

Analytical Lab: Gulf Coast Analytical Laboratories

Delivery Location: Baton Rouge, LA

Lab Recipient:

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

7949 7144 7606 3.6°C

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211071505

Client: 4771 - NationView LLC

Profile: 204817 - AOC-U Investigarion, Holloman AFB

Line Item: 1 - Water

Received by: Carstens, Jennifer K.

Received Date/Time: 7/15/2011 9:15:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 7949 7144 7606

Cooler temperature(s): 3.6

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

Southeast ACCUTEST LABORATORIES

08/22/11

Technical Report for

Nation View

Holloman AFB; AOC-U, RFI Investigation

8090006.02.010

Accutest Job Number: F84275

Sampling Dates: 07/11/11 - 07/13/11

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **12**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

Nation View

Job No: F84275

Holloman AFB; AOC-U, RFI Investigation
Project No: 8090006.02.010

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F84275-1	07/11/11	13:30	JM	07/15/11	SO	Soil	AOCU-HA12-2
F84275-2	07/13/11	11:45	JM	07/15/11	SO	Soil	AOCU-HA91-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@122627 16:24 22-Aug-2011

Report of Analysis

Client Sample ID:	AOCU-HA12-2		
Lab Sample ID:	F84275-1	**Date Sampled:**	07/11/11
Matrix:	SO - Soil	**Date Received:**	07/15/11
		Percent Solids:	78.8
Project:	Holloman AFB; AOC-U, RFI Investigation		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis)	1.4			g/ml	1	07/27/11	LE	ASTM D2937-94 M
Fractional Organic Carbon	7.4	0.01	0.01	%	1	07/20/11	LE	ASTM D2974-87
Solids, Percent	78.8			%	1	07/18/11	LE	SM19 2540G
Specific Gravity	1.8				1	07/27/11	LE	ASTM 1429

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Accutest LabLink@122627 16:24 22-Aug-2011

Report of Analysis

Client Sample ID:	AOCU-HA91-2		
Lab Sample ID:	F84275-2	**Date Sampled:**	07/13/11
Matrix:	SO - Soil	**Date Received:**	07/15/11
		Percent Solids:	83.3
Project:	Holloman AFB; AOC-U, RFI Investigation		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Bulk Density (Dry Basis)	1.6			g/ml	1	07/27/11	LE	ASTM D2937-94 M
Fractional Organic Carbon	5.0	0.01	0.01	%	1	07/20/11	LE	ASTM D2974-87
Solids, Percent	83.3			%	1	07/18/11	LE	SM19 2540G
Specific Gravity	2.0				1	07/27/11	LE	ASTM 1429

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

NATIONVIEW

F84275

Chain of Custody and Analytical Request

Page: 1 of 1
Project No: 8090006.02.010
COC Number(1): 071411-02
LIMS Number:

Facility/Base I.D.: Holloman AFB, New Mexico
Project/Site Name: AOC-U, RFI Investigation
Client Name: USACE - Albuquerque District
Collected by: Dustin McNeil/ Brian Parrish/ Jim Moore

	Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	Moisture Cont (SM 18/2540B)	Dry Bulk Density (D2937)	Specific Gravity (D1429-86)	FOC Content (D2974)	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
1	AOCU-HA12-2	AOCU-HA12	11072011	1330	1 - 2	N	1	SO	1	X	X	X	X				
2	AOCU-HA91-2	AOCU-HA91	13072011	1145	1 - 2	N	1	SO	1	X	X	X	X				2
																	2

Sample Analysis Requested (5) — Quality Assurance Samples (6)

COMMENTS:

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1. JH Moore	7/14/11	1500	1.		
2.			2.	7/15/11	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Federal Express
Analytical Lab: Accutest Laboratories
Lab Recipient:
Shipped No.:
Airbill Number: 8598 2643 7884
Delivery Location: Orlando, FL
Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)
2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)
3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks
5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.
6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

F84275: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F84275 CLIENT: Nationwide PROJECT: Holloman AFB

DATE/TIME RECEIVED: 071511 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [x] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +.4
- [ ] OBSERVED TEMPS: 23.2
- [ ] CORRECTED TEMPS: 23.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Out of temp

TECHNICIAN SIGNATURE/DATE ET 07.15.11 REVIEWER SIGNATURE/DATE JC 7-15-11

NF 12/10 receipt confirmation 122910.xls

F84275: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F84275
Account: NATVALB - Nation View
Project: Holloman AFB; AOC-U, RFI Investigation

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bulk Density (Dry Basis)	GN45650		0.0	g/ml				
Fractional Organic Carbon	GN45558	0.01	0.0	%				
Specific Gravity	GN45649		1.0					

Associated Samples:
Batch GN45558: F84275-1, F84275-2
Batch GN45649: F84275-1, F84275-2
Batch GN45650: F84275-1, F84275-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F84275
Account: NATVALB - Nation View
Project: Holloman AFB; AOC-U, RFI Investigation

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bulk Density (Dry Basis)	GN45650	F84275-1	g/ml	1.4	1.4	1.3	0-20%
Fractional Organic Carbon	GN45558	F84275-1	%	7.4	6.6	12.4	0-40%
Solids, Percent	GN45519	F84264-11	%	94.1	94.1	0.0	0-10%
Specific Gravity	GN45649	F84275-1		1.8	1.8	2.1	0-20%

Associated Samples:
Batch GN45519: F84275-1, F84275-2
Batch GN45558: F84275-1, F84275-2
Batch GN45649: F84275-1, F84275-2
Batch GN45650: F84275-1, F84275-2
(*) Outside of QC limits

APPENDIX D

DATA VALIDATION REPORTS

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on February 28th and March 1st, 2011. Fifteen groundwater samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW96	Water	2/28/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/ DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2) and TDS (SM2540C)
AOCU-GW100			
AOCU-GW82			
AOCU-GW83			
AOCU-GW80			
AOCU-GW93			
AOCU-GW77			
AOCU-GW78			
AOCU-GW75A			
AOCU-GW75			
AOCU-GW98			
AOCU-GW89		3/1/11	
AOCU-GW91			
AOCU-GW86			
AOCU-GW84			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List, TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

Calcium, barium, sodium, magnesium, manganese and silver were detected in the method blanks above the reporting limit (RL). Sample AOCU-GW78 for barium and sample

AOCU-GW86 for manganese yielded results <10 times the blank concentration and were qualified as estimated, "J". All other associated samples resulted in concentrations for these metals >10 times the blank concentration and no qualification was required.

A detection for nitrate, equal to the RL, was discovered in the method blank. All sample results were >RL therefore the method blank contamination did not adversely influence the sample concentrations and no qualification was required.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries for acrylonitrile were above QC limits. Since this compound was not detected in the associated samples; no qualification was required.

The LCS recovery for chromium was slightly below QC limits. The associated samples with positive results were qualified as estimated, "J".

The surrogate nitrobenzene-d5 recovery was below QC limits in sample AOCU-GW91. No qualification was required since only one semi-volatile surrogate was outside control limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for 1,2,3-trichloropropane, 2-chloroethylvinyl ether, chloroethane, trans-1,4-dichloro-2-butene, thallium, mercury, and vanadium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary.

Control limits were not applicable for calcium, magnesium, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for all compounds was within project defined control limits.

Compound Quantitation and Reporting Limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

The initial calibration verification (ICV) and the continuing calibration verification (CCV) percent drift (%D) for acrylonitrile were above control limits. 2,4-Dinitrophenol yielded a high ICV recovery. These compounds were not detected in the affected samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-GW78	Barium	0.0050 J
AOCU-GW84	Chromium	0.010 J
AOCU-GW86	Chromium Manganese	0.0047 J 0.011 J
AOCU-GW89	Chromium	0.011 J

*Results are in milligrams per liter (mg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on March 1 - 2, 2011. Eleven groundwater samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW73	Water	3/1/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/ DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2) and TDS (SM2540C)
AOCU-GW72			
AOCU-GW68			
AOCU-GW71			
AOCU-GW69			
AOCU-GW69-A			
AOCU-GW57		3/2/11	
AOCU-GW59			
AOCU-GW64			
AOCU-GW66			
AOCU-GW56			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List, TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

Method blank contamination was present in prep batch 451727 for calcium, barium, sodium, magnesium, manganese, silver, and zinc and in prep batch 451808 for barium, calcium, magnesium, silver, and vanadium. These analytes were detected above the method blank reporting limit (RL). Where detected, all associated samples resulted in concentration for these metals >10 times the blank concentration and no qualification was required.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries for acrylonitrile were above QC limits. Since this compound was not detected in the associated samples; no qualification was required.

The LCS recovery for chromium was slightly below QC limits. The associated samples with positive results were qualified as estimated, "J".

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for multiple volatile compounds and metals thallium, mercury, copper, and vanadium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary.

Control limits were not applicable for calcium, magnesium, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for chromium was outside project defined control limits and qualified as estimated, "J", in both the sample and duplicate.

Compound Quantitation and Reporting Limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

The initial calibration verification (ICV) and the continuing calibration verification (CCV) percent drift (%D) for acrylonitrile were above control limits. 2,4-Dinitrophenol yielded a high ICV recovery. These compounds were not detected in the affected samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-GW69	Chromium	0.0055 J
AOCU-GW69-A	Chromium	0.0031 J
AOCU-GW68	Chromium	0.0070 J
AOCU-GW71	Chromium	0.0093 J
AOCU-GW72	Chromium	0.0067 J
AOCU-GW73	Chromium	0.0059 J

*Results are in milligrams per liter (mg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on March 2-3, 2011. Nine groundwater samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW54	Water	3/2/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/ DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2) and TDS (SM2540C)
AOCU-GW52			
AOCU-GW47			
AOCU-GW47-A			
AOCU-GW50			
AOCU-GW43		3/3/11	
AOCU-GW45			
AOCU-GW39			
AOCU-GW41			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List, TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

In prep batch 451808, method blank contamination was present for calcium, barium, magnesium, silver, and vanadium and for barium, calcium, magnesium, cobalt, and thallium related to prep batch 451923. These analytes were detected above the method blank reporting limit (RL). Where detected, all associated samples resulted in concentration for these metals >10 times the blank concentration and no qualification was required.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries for acrylonitrile were above QC limits. Since this compound was not detected in the associated samples; no qualification was required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for multiple volatile compounds and metals mercury, copper, thallium, and vanadium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary.

Control limits were not applicable for calcium, magnesium, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for antimony was outside project defined control limits and qualified as estimated, “J”, in both sample and duplicate.

Compound Quantitation and Reporting Limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

The initial calibration verification (ICV) percent drift (%D) for acrylonitrile was above control limits. This compound was not detected in the affected samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-GW47	Antimony	0.20 J
AOCU-GW47-A	Antimony	0.11 J

*Results are in milligrams per liter (mg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on March 3-4, 2011. Ten groundwater samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW26	Water	3/3/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2) and TDS (SM2540C)
AOCU-GW28			
AOCU-GW32			
AOCU-GW35			
AOCU-GW35-A			
AOCU-GW19		3/4/11	
AOCU-GW20			
AOCU-GW22			
AOCU-GW24			
AOCU-GW24-A			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List, TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

Barium, sodium and magnesium were detected in the method blank, associated with samples AOCU-GW19, AOCU-GW20, and AOCU-GW22, above the RL. All associated samples resulted in concentration >10 times the blank concentration and no qualification was required.

Barium, calcium, cobalt, magnesium, and thallium were detected in the method blank associated with samples AOCU-GW26, AOCU-GW28, AOCU-GW32, AOCU-GW35

and AOCU-GW35-A above the RL. Sample AOCU-GW28 resulted in cobalt <10 times the blank concentration as well as barium in sample AOCU-GW32 and were qualified as estimated, "J".

The method blank associated with samples AOCU-GW24 and AOCU-GW24-A yielded results >RL for arsenic, barium, calcium, cobalt, potassium, and thallium. Only cobalt in sample AOCU-GW24-A was qualified as estimated, "J", due to the result <10 times the blank concentration. All other metals were >10 times the blank concentration and required no qualification.

Finally, the method blank associated with samples AOCU-GW19, AOCU-GW20, AOCU-GW22, AOCU-GW24, and AOCU-GW24-A reported a low level of mercury. Mercury was not detected in any aforementioned sample and required no qualification.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries for acrylonitrile were above QC limits. Since this compound was not detected in the associated samples; no qualification was required.

The LCS recoveries for magnesium and vanadium associated with samples AOCU-GW19, AOCU-GW20, and AOCU-GW22 were slightly below QC limits. The associated samples with positive results were qualified as estimated, "J".

The surrogate 2,4,6-tribromophenol recovery was below QC limits in sample AOCU-GW35-A. No qualification was required since only one semi-volatile surrogate was outside control limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or relative percent difference (RPD) for multiple volatile compounds and metals mercury, thallium, zinc, and vanadium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary. The exception was for compounds acrylonitrile and vanadium but these compounds were not detected in the associated samples. Therefore using professional judgment, no qualification was required.

Control limits were not applicable for calcium, magnesium, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

Two field duplicate samples were submitted as part of this sampling event. The RPD for DRO was outside project defined control limits for sample AOCU-GW35 and its duplicate. The RPD for arsenic and chromium were outside limits for sample AOCU-24 and its duplicate. These compounds were qualified as estimated, "J", in the original and duplicate samples.

Compound Quantitation and Reporting Limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-GW35	TPH-DRO	84.9 J
AOCU-GW35-A	TPH-DRO	52.3 J
AOCU-GW24	Arsenic Chromium	0.098 J 0.0044 J
AOCU-GW24-A	Arsenic Chromium Cobalt	0.049 J 0.015 J 0.0044 J
AOCU-GW19	Magnesium	9,200 J
AOCU-GW20	Magnesium	8,540 J
AOCU-GW22	Magnesium	7,320 J
AOCU-GW28	Cobalt	0.0021 J
AOCU-GW32	Barium	0.0063 J

* Results are in milligrams per liter (mg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on March 4-6, 2011. Fourteen groundwater samples and associated quality control (QC) samples were taken from the AOC-U site for analyses. All analyses were performed by Gulf Coast Analytical Laboratories, Inc. in Baton Rouge, LA. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW15	Water	3/4/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2), and TDS (SM2540C)
AOCU-GW17			
AOCU-GW10			
AOCU-GW12			
AOCU-GW05		3/5/11	
AOCU-GW07			
AOCU-GW03			
AOCU-GW08			
AOCU-GW01			
AOCU-GW02			
AOCU-SW03		3/6/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7470A), Nitrate (353.2), TDS (SM2540C), pH (SW9040A), and Hardness (SM2340B)
AOCU-SW03-A			
AOCU-SW01			
AOCU-SW02			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-Volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List, and TDS – Total Dissolved Solids			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times with the following exception. The analysis of nitrate was performed outside required hold time for those samples collected on March 4th and 5th. All results were qualified as estimated, "J".

Blanks

No compounds were detected in the trip blanks.

The method blank yielded detections for barium, magnesium, and sodium above the reporting limit (RL). All samples resulted in concentrations greater than 10 times the blank concentration and no qualification was required with the following exception.

Sample AOCU-GW15 yielded a concentration for barium less than 10 times the blank concentration and was qualified as estimated, “J”.

The method blank associated with AOCU-SW01, SW02, SW03, and SW03-A yielded detections for calcium and hardness above the RL. No sample resulted in detections less than 10 times the blank concentration and necessitated no qualification.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample duplicate (LCSD) recoveries (batch 452153) for trans-1,3-dichloropropene and 1-chlorohexane were below QC limits. These not detected compounds were qualified as estimated non-detected, “UJ”, in the associated samples. The laboratory control sample (LCS) recovery (batch 452190) for bromochloromethane was above QC limits. The associated samples did not yield a detection for this compound and no qualification was necessary. The LCSD recovery (batch 452190) for 1,1-dichloropropene was below QC limits. The associated samples were qualified as estimated non-detected, “UJ”.

The LCS recovery for magnesium and vanadium were slightly below QC limits. The associated samples with positive results were qualified as estimated, “J”.

The recovery of the TPH-DRO/ORO surrogate o-terphenyl was above QC limits in sample AOCU-SW03. These compounds were not detected in the sample and no qualification was required.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and/or MSD recoveries for multiple volatile compounds and metals thallium, mercury, and vanadium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary, with the exception of vanadium which resulted in both LCS and matrix QC deficiencies and was qualified either estimated ,”J” or estimated non-detected, “UJ”, in all samples.

Control limits were not applicable for calcium, magnesium, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The relative percent difference (RPD) for chromium, copper, manganese, and nickel were outside project defined control limits and were qualified as estimated, “J”, in both the original sample and the duplicate.

Compound Quantitation and Reporting Limits

To quantify the data or due to matrix interference, multiple samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-GW15	Nitrate	0.014 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	3,440 J
	Barium	0.0029 J
	Vanadium	UJ
AOCU-GW17	Nitrate	0.248 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	17,100 J
	Vanadium	UJ
AOCU-GW10	Nitrate	0.065 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	7,840 J
	Vanadium	UJ
AOCU-GW12	Nitrate	16.6 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	4,360 J
	Vanadium	UJ
AOCU-GW05	Nitrate	1.10 J
	1,1-Dichloropropene	UJ
	Magnesium	8,290 J
	Vanadium	UJ
AOCU-GW07	Nitrate	0.102 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	14,000 J
	Vanadium	UJ
AOCU-GW03	Nitrate	0.107 J
	trans-1,3-Dichloropropene	UJ
	1-Chlorohexane	UJ
	Magnesium	13,700 J
	Vanadium	UJ
AOCU-GW08	Nitrate	0.102 J
	1,1-Dichloropropene	UJ
	Magnesium	15,300 J
	Vanadium	UJ
AOCU-GW01	Nitrate	0.005 J
	Magnesium	2,110 J
	Vanadium	UJ
AOCU-GW02	Nitrate	4.37 J
	Magnesium	8,220 J
	Vanadium	UJ
AOCU-SW03	Chromium	0.0075 J
	Copper	0.14 J
	Manganese	0.080 J
	Nickel	0.047 J
	Magnesium	1,300 J
	Vanadium	UJ

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-SW03-A	Chromium	0.015 J
	Copper	0.085 J
	Manganese	0.045 J
	Nickel	0.019 J
	Magnesium	1510 J
	Vanadium	0.042 J
AOCU-SW02	1,1-Dichloropropene	UJ
	Magnesium	2,850 J
	Vanadium	UJ
AOCU-SW01	Magnesium	3,050 J
	Vanadium	UJ

*Metals results are in milligrams per liter (mg/L) and volatiles are in micrograms per liter (µg/L)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, from February 28 - March 6, 2011. Fifty-nine groundwater samples were taken from the AOC-U site for analysis. All analyses were performed by TestAmerica Laboratories, Inc. in Denver, CO. The specific samples included in this validation were:

Sample ID	Matrix	SDG#	Collection Date	Analyses
AOCU-GW47	Water	680-66203-1	3/2/11	Perchlorate (SW6860)
AOCU-GW47-A				
AOCU-GW50				
AOCU-GW52				
AOCU-GW54				
AOCU-GW56				
AOCU-GW57				
AOCU-GW59				
AOCU-GW64				
AOCU-GW66				
AOCU-GW68		680-66162-1	3/1/11	
AOCU-GW69				
AOCU-GW69-A				
AOCU-GW71				
AOCU-GW72				
AOCU-GW73				
AOCU-GW84				
AOCU-GW86				
AOCU-GW89				
AOCU-GW91				
AOCU-GW75		680-66093-1	2/28/11	
AOCU-GW75-A				
AOCU-GW77				
AOCU-GW78				
AOCU-GW80				
AOCU-GW82				
AOCU-GW83				
AOCU-GW93				
AOCU-GW96				
AOCU-GW98				
AOCU-GW100				
AOCU-GW01		680-66263-1	3/5/11	
AOCU-GW02				
AOCU-GW03				
AOCU-GW05				
AOCU-GW07				
AOCU-GW08				
AOCU-GW10			3/4/11	
AOCU-GW12				
AOCU-GW15				
AOCU-GW17				
AOCU-GW19				

Sample ID	Matrix	SDG#	Collection Date	Analyses
AOCU-GW20				
AOCU-GW22				
AOCU-GW24				
AOCU-GW24-A				
AOCU-SW01			3/6/11	
AOCU-SW02				
AOCU-SW03				
AOCU-SW03-A				
AOCU-GW26		680-66222-1	3/3/11	
AOCU-GW28				
AOCU-GW32				
AOCU-GW35				
AOCU-GW35-A				
AOCU-GW39				
AOCU-GW43				
AOCU-GW45				
AOCU-GW41				

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No perchlorate was detected in the method blanks.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries were within control limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All MS/MSD recoveries and relative percent difference (RPD) were within control limits with the exception of the MS/MSD recoveries associated with sample AOCU-GW26. Since the analyte concentration exceeded the spiked concentration by a factor of four or more, control limits were not applicable and no qualification was necessary.

Project Specific Quality Assurance/Quality Control

Six field duplicate samples were submitted as part of this sampling event. The RPD for perchlorate was within project defined control limits.

Compound Quantitation and Reporting Limits

Due to high levels of dissolved salts, all samples required a dilution. Elevated reporting limits were reported.

Overall Assessment of Data

All analyses were performed, and the data met the required QC. The data is 100% complete.

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 11, 2011. Seven soil samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses, with the exception of perchlorate, were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. Perchlorate was analyzed by DHL Analytical in Round Rock, TX. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-HA20-2	Soil	7/11/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7471B), Nitrate (353.2) and Perchlorate (SW6860)
AOCU-HA22-2			
AOCU-HA22-2-A			
AOCU-HA24-1			
AOCU-HA26-1.5			
AOCU-HA28-2			
AOCU-HA41-3			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blank.

The equipment blank yielded detections for volatiles bromodichloromethane and dibromochloromethane and metals barium, cadmium, cobalt, copper, magnesium, manganese, nickel, potassium, thallium, and vanadium between the method detection limit (MDL) and reporting limit (RL). The volatile compounds were not detected in any sample. The remaining compounds between the MDL and RL were qualified as estimated, "J".

Chloroform, mercury, sodium, calcium and nitrate were detected above the RL in the equipment blank. Those compounds that were less than 10 times the blank concentration were qualified as estimated, “J”.

Chloroform was detected in the method blank associated with all samples between the MDL and RL. This compound was qualified as estimated, “J”.

Aluminum, barium, calcium, chromium, cobalt, copper, iron, lead, potassium, silver, and vanadium were detected in the method blank between the MDL and RL. Those compounds that were detected below the RL were qualified as estimated, “J”.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The LCS recoveries and/or relative percent difference (RPD), associated with the trip blank, for bromochloromethane, dibromomethane, cis-1,2-dichloroethene, n-hexane, ethyl methacrylate, and acetonitrile were above QC limits. These compounds were not detected in the trip blank; no qualification was required.

The LCS/LCSD recoveries for pentachloroethane were above QC limits associated with all samples. This compound was not detected therefore no qualification was necessary.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for 1,2,3-trichlorobenzene; 1,2,3-trichloropropane; 1,2,4-trichlorobenzene; chloroethane; hexachlorobutadiene; pentachloroethane; n-butylbenzene; 4-chloro-3-methylphenol; 4-nitrophenol; pentachlorophenol; antimony; and perchlorate were outside control limits. Cross reference with the associated LCS recoveries, which were in control with the exception of pentachloroethane, concluded no qualification was necessary. Pentachloroethane was not detected in any sample therefore no qualification was deemed necessary.

Control limits were not applicable for calcium, magnesium, aluminum, iron, manganese, potassium, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for aluminum, barium, beryllium, chromium, cobalt, copper, iron, lead, nickel, potassium, vanadium and zinc were outside project defined control limits and qualified as estimated, “J”, in both the original sample and the duplicate.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The continuing calibration verification (CCV) percent drift (%D) for pentachloroethane was above control limits. This compound was not detected in the associated samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-HA20-2	Chloroform	0.969 J
	Silver	0.25 J
	Cadmium	0.52 J
	Nickel	3.35 J
AOCU-HA22-2	Chloroform	1.20 J
	Aluminum	8,140 J
	Barium	67.5 J
	Beryllium	0.66 J
	Chromium	10.5 J
	Cobalt	4.02 J
	Copper	9.99 J
	Iron	10,400 J
	Lead	8.66 J
	Nickel	9.69 J
	Potassium	2,580 J
	Vanadium	19.5 J
	Zinc	38.1 J
	Cadmium	0.45 J
AOCU-HA22-2-A	Chloroform	1.00 J
	Aluminum	3,900 J
	Barium	35.5 J
	Beryllium	0.17 J
	Chromium	3.92 J
	Cobalt	1.39 J
	Copper	4.55 J
	Iron	3,610 J
	Lead	1.21 J
	Nickel	3.11 J
	Potassium	1,240 J
	Vanadium	8.21 J
	Zinc	12.3 J
	Silver	0.11 J
	Thallium	0.61 J
	Cadmium	0.37 J
AOCU-HA24-1	Chloroform	1.14 J
	Cadmium	0.40 J
AOCU-HA26-1.5	Chloroform	0.958 J
	Thallium	1.12 J
	Cadmium	0.42 J
AOCU-HA28-2	Chloroform	1.39 J
	Thallium	0.36 J
AOCU-HA41-3	Chloroform	0.980 J
	Silver	0.14 J
	Nickel	3.33 J
	Cadmium	0.38 J
	Thallium	0.45 J

* Metals in are in milligrams per kilogram (mg/kg), volatiles are in micrograms per kilogram (µg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 11-12, 2011. Nine soil samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses, with the exception of perchlorate, were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. Perchlorate was analyzed by DHL Analytical in Round Rock, TX. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-HA12-2	Soil	7/11/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7471B), Nitrate (353.2) and Perchlorate (SW6860)
AOCU-HA35-3			
AOCU-HA43-2		7/12/11	
AOCU-HA45-1.5			
AOCU-HA45-1.5-A			
AOCU-HA47-2			
AOCU-HA50-2			
AOCU-HA56-1			
AOCU-HA57-1			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blank.

The equipment blank, associated with samples AOCU-HA12-2 and AOCU-HA35-3, yielded detections for bromodichloromethane, dibromochloromethane, barium, cadmium, cobalt, copper, magnesium, manganese, nickel, potassium, thallium, and vanadium between the method detection limit (MDL) and reporting limit (RL). The volatile compounds were not detected in the two samples. The remaining compounds between the MDL and RL were qualified as estimated, "J". Chloroform, mercury, sodium, calcium and nitrate were detected above the RL in this equipment blank. Those

compounds that were less than 10 times the blank concentration were qualified as estimated, “J”.

The equipment blank, associated with the samples collected on July 12, 2011, yielded detections for bromodichloromethane, dibromochloromethane, barium, beryllium, cadmium, cobalt, copper, manganese, nickel, potassium, thallium, and vanadium between the MDL and reporting limit RL. The volatile compounds were not detected in the associated samples. The remaining compounds between the MDL and RL were qualified as estimated, “J”. Chloroform, mercury, magnesium, sodium, calcium, and nitrate were detected above the RL in this equipment blank. Those compounds that were less than 10 times the blank concentration were qualified as estimated, “J”.

Chloroform was detected in the method blank associated with sample AOCU-HA12-2 between the MDL and RL. This compound was qualified as estimated, “J”. The remaining eight samples yielded method blank results for chloroform, acetone, 2-butanone, o-xylene, n-hexane, and benzene between the MDL and RL. Those compounds less than 5 times the blank concentration (less than 10 times for acetone and 2-butanone) were qualified as estimated, “J”.

Aluminum, barium, beryllium, calcium, chromium, copper, iron, manganese, potassium, silver, sodium, and zinc were detected in the method blank between the MDL and RL. Those compounds that were detected below the RL were qualified estimated, “J”.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The LCS recoveries and/or relative percent difference (RPD), associated with the trip blank and equipment blank, for bromochloromethane, dibromomethane, cis-1,2-dichloroethene, n-hexane, ethyl methacrylate, and acetonitrile were above QC limits. These compounds were not detected in the associated samples; no qualification was required.

The LCS/LCSD recoveries for pentachloroethane were above QC limits associated with all samples. This compound was not detected therefore no qualification was necessary.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for antimony, manganese, and potassium were outside control limits. Cross reference with the associated LCS recoveries, which were in control, concluded no qualification was necessary.

Control limits were not applicable for calcium, magnesium, aluminum, iron, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for manganese was outside project defined control limits and was qualified as estimated, “J”, in both the original sample and the duplicate.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The continuing calibration verification (CCV) percent drift (%D) for pentachloroethane was above control limits. This compound was not detected in the associated samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-HA12-2	Cadmium	0.60 J
	Cobalt	0.79 J
	Nickel	1.29 J
	Chloroform	0.878 J
	Beryllium	0.041 J
	Chromium	2.69 J
	Silver	0.28 J
AOCU-HA35-3	Chloroform	0.906 J
	Cadmium	0.53 J
	n-Hexane	2.10 J
	o-Xylene	0.919 J
	Beryllium	0.31 J
	2-Butanone	26.6 J
AOCU-HA43-2	Chloroform	0.712 J
	Thallium	0.30 J
	o-Xylene	1.39 J
	2-Butanone	11.8 J
AOCU-HA45-1.5	Manganese	185 J
	Chloroform	0.776 J
	Cadmium	0.28 J
	Thallium	0.29 J
	Acetone	12.8 J
	o-Xylene	1.38 J
	2-Butanone	6.03 J
AOCU-HA45-1.5-A	Manganese	327 J
	Chloroform	0.804 J
	Thallium	0.35 J
	Acetone	10.6 J
	o-Xylene	1.43 J
	2-Butanone	6.63 J
AOCU-HA47-2	Chloroform	0.743 J
	Beryllium	0.46 J
	Cadmium	0.34 J
	n-Hexane	2.22 J
	o-Xylene	1.10 J
	2-Butanone	8.96 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-HA50-2	Chloroform	0.785 J
	Beryllium	0.041 J
	Cadmium	0.15 J
	Cobalt	0.78 J
	Nickel	1.37 J
	Acetone	12.7 J
	n-Hexane	1.17 J
	o-Xylene	0.979 J
	2-Butanone	6.01 J
AOCU-HA56-1	Chloroform	0.888 J
	Beryllium	0.025 J
	Cadmium	0.29 J
	Cobalt	0.64 J
	Nickel	0.84 J
	Benzene	0.828 J
	n-Hexane	0.491 J
	o-Xylene	1.06 J
	2-Butanone	7.90 J
AOCU-HA57-1	Chloroform	0.861 J
	Beryllium	0.13 J
	Cadmium	0.20 J
	Nickel	2.42 J
	n-Hexane	1.18 J
	o-Xylene	0.964 J
	2-Butanone	9.94 J

* Metals are in milligrams per kilogram (mg/kg), volatiles are in micrograms per kilogram (µg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 12-13, 2011. Eight soil samples and associated quality control (QC) samples were taken from the AOC-U site for analysis. All analyses, with the exception of perchlorate, were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. Perchlorate was analyzed by DHL Analytical in Round Rock, TX. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-HA64-2	Soil	7/12/11	VOCs (SW8260B), SVOCs (SW8270C), TPH-GRO/DRO/ORO (SW8015B), TAL Metals (SW6010B/7471B), Nitrate (353.2) and Perchlorate (SW6860)
AOCU-HA66-2			
AOCU-HA68-2		7/13/11	
AOCU-HA69-2			
AOCU-HA69-2-A			
AOCU-HA71-2			
AOCU-HA84-10			
AOCU-HA91-2			
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TAL – Target Analyte List			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

No compounds were detected in the trip blanks.

The equipment blank, associated with samples AOCU-HA64-2 and AOCU-HA66-2, yielded detections for bromodichloromethane, dibromochloromethane, barium, beryllium, cadmium, cobalt, copper, manganese, nickel, potassium, thallium, and vanadium between the method detection limit (MDL) and reporting limit (RL). The volatile compounds were not detected in any associated sample. The remaining compounds between the MDL and RL were qualified as estimated, "J". Chloroform, mercury, magnesium, sodium, calcium, and nitrate were detected above the RL in this

equipment blank. Those compounds that were less than 10 times the blank concentration were qualified as estimated, “J”.

The equipment blank, associated with samples collected on July 13, 2011, yielded detections for dibromochloromethane, barium, cadmium, cobalt, copper, manganese, nickel, thallium, vanadium, and TPH-ORO between the MDL and RL. The volatile and TPH compounds were not detected in the associated samples. The remaining compounds between the MDL and RL were qualified as estimated, “J”. Mercury, bromodichloromethane, chloroform, magnesium, potassium, sodium, calcium, and nitrate were detected above the RL in this equipment blank. Those compounds that were less than 10x the blank concentration were qualified as estimated, “J”.

Acetone, chloroform, 2-butanone, o-xylene, n-hexane, and benzene were detected in the method blank between the MDL and RL along with aluminum, arsenic, barium, beryllium, copper, iron, manganese, potassium, silver, sodium, and vanadium. The volatile compounds which yielded concentrations less than 5 times the blank concentration (10 times for acetone and 2-butanone) were qualified as estimated, “J”. The remaining compounds with detections less than the RL were also qualified as estimated, “J”. Finally, magnesium was detected in the method blank greater than the RL. No sample yielded concentrations less than 10 times the blank concentration; therefore, qualification was not necessary.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

Multiple compounds yielded LCS/LCSD recoveries and/or relative percent difference (RPD), associated with the trip blanks, above QC limits. These compounds were not detected in the trip blanks and no qualification was required.

The LCS/LCSD recoveries and RPD for pentachloroethane were above QC limits associated with all samples. This compound was not detected therefore no qualification was necessary.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS/MSD recoveries and/or RPDs for 1,2,3-trichloropropane, 2-chloroethylvinyl ether, 4-methyl-2-pentanone, acetone, chloroethane, ethyl methacrylate, methyl methacrylate, pentachloroethane, propionitrile, antimony, manganese, and potassium were outside control limits. Cross reference with the associated LCS recoveries, which were in control with the exception of pentachloroethane, concluded no qualification was necessary. Pentachloroethane was not detected in any sample therefore no qualification was needed.

Control limits were not applicable for calcium, magnesium, aluminum, iron, and sodium since the target analyte concentration exceeded the spiked concentration by a factor of four or more.

Project Specific Quality Assurance/Quality Control

One field duplicate sample was submitted as part of this sampling event. The RPD for lead, magnesium, sodium, and perchlorate were outside project defined control limits and were qualified as estimated, “J”, in both the original sample and the duplicate.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

The continuing calibration verification (CCV) percent drift (%D) for pentachloroethane was above control limits. This compound was not detected in the associated samples; therefore, sample integrity was not impacted. No qualification of the data was necessary.

All analyses were performed, and the data met the required QC criteria except where noted. The data is 100% complete.

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-HA64-2	Chloroform	0.851 J
	Beryllium	0.12 J
	Cadmium	0.21 J
	Cobalt	0.86 J
	Nickel	2.04 J
	n-Hexane	1.97 J
	o-Xylene	1.22 J
	2-Butanone	6.74 J
	Arsenic	1.02 J
AOCU-HA66-2	Chloroform	0.935 J
	Beryllium	0.14 J
	Cadmium	0.20 J
	Cobalt	0.93 J
	Nickel	2.18 J
	Thallium	0.51 J
	n-Hexane	2.36 J
	o-Xylene	1.23 J
	2-Butanone	9.18 J
	Arsenic	0.92 J
AOCU-HA68-2	Chloroform	0.788 J
	Beryllium	0.031 J
	Cadmium	0.15 J
	Cobalt	0.31 J
	Nickel	0.61 J
	Acetone	16.6 J
	n-Hexane	1.77 J
	o-Xylene	1.01 J
	2-Butanone	7.17 J
	Arsenic	0.75 J

Summary of Qualified Data

Sample ID	Parameter	Qualifier*
AOCU-HA69-2	Chloroform	0.839 J
	Lead	1.65 J
	Magnesium	11,300 J
	Sodium	11,700 J
	Beryllium	0.11 J
	Cadmium	0.24 J
	Cobalt	0.89 J
	Nickel	2.08 J
	2-Butanone	5.18 J
	Acetone	9.10 J
	n-Hexane	1.46 J
	o-Xylene	1.03 J
	Arsenic	1.40 J
	Perchlorate	0.00749 J
AOCU-HA69-2-A	Chloroform	0.703 J
	Lead	0.54 J
	Magnesium	6,230 J
	Sodium	3,770 J
	Beryllium	0.11 J
	Cadmium	0.24 J
	Cobalt	0.69 J
	Nickel	1.56 J
	2-Butanone	5.18 J
	Acetone	10.9 J
	n-Hexane	1.81 J
	o-Xylene	1.09 J
	Arsenic	0.84 J
	Perchlorate	0.0137 J
AOCU-HA71-2	Chloroform	0.838 J
	Beryllium	0.074 J
	Cadmium	0.27 J
	Cobalt	0.61 J
	Nickel	1.21 J
	2-Butanone	5.31 J
	Acetone	8.28 J
	o-Xylene	1.48 J
AOCU-HA84-10	Chloroform	0.679 J
	Cadmium	0.38 J
	Thallium	0.37 J
	2-Butanone	4.90 J
	Acetone	4.47 J
	o-Xylene	1.56 J
	Arsenic	2.31 J
AOCU-HA91-2	Chloroform	0.772 J
	Beryllium	0.17 J
	Cadmium	0.21 J
	Nickel	3.46 J
	n-Hexane	1.46 J
	o-Xylene	0.953 J
	2-Butanone	6.29 J
	Arsenic	0.99 J

* Metals and perchlorate are in milligrams per kilogram (mg/kg), volatiles are in micrograms per kilogram (µg/kg)

Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on July 13-14, 2011. Four soil samples and associated quality control (QC) samples were taken from the AOC-U site for analyses. All analyses, with the exception of perchlorate, were performed by Gulf Coast Analytical Laboratories, Inc., Baton Rouge, LA. Perchlorate was analyzed by DHL Analytical in Round Rock, TX. The specific samples included in this validation were:

Sample ID	Matrix	Collection Date	Analyses (USEPA Method Number)
AOCU-GW91-R	Soil	7/13/11	Nitrate (353.2) and Perchlorate (6860)
AOCU-SA01		7/14/11	
AOCU-SA02			
AOCU-SA03			Nitrate (353.2)
Notes: ID – Identification, USEPA – U.S. Environmental Protection Agency			

This data was validated against the laboratory's quality assurance (QA)/QC limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, June 2008) and in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, January 2010).

Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

Blanks

The equipment blank, associated with sample AOCU-GW91-R, yielded detections for dibromochloromethane, barium, cadmium, cobalt, copper, manganese, nickel, thallium, vanadium, and total petroleum hydrocarbons-oil range organics (TPH-ORO) between the method detection limit (MDL) and reporting limit (RL). Mercury, bromodichloromethane, chloroform, magnesium, potassium, sodium, calcium, and nitrate were detected above the RL. Only nitrate applied to this sample and was greater than 10 times the RL; therefore, no qualification was necessary.

Perchlorate and nitrate were not detected in the method blanks.

Blank Spike Sample (Laboratory Control Sample)/ Surrogates

The laboratory control sample (LCS) recoveries for nitrate and perchlorate were within control limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

The MS and MSD recoveries for nitrate and perchlorate were within control limits.

Project Specific Quality Assurance/Quality Control

No field duplicate sample was submitted as part of this sampling event.

Compound Quantitation and Reporting Limits

Where a dilution was required elevated reporting limits were reported.

Overall Assessment of Data

All analyses were performed, and the data met the required QC criteria. The data is 100% complete.